ORDER NO.DSD0305008C2

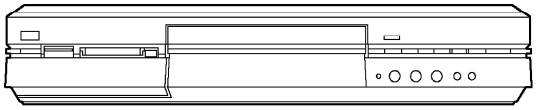
Service Manual

DVD Video Recorder

DMR-E60EB / DMR-E60EG

Colour

(S).....Silver Type



SPECIFICATIONS

Specifications

Power supply:	**AC220-240 V, 50 Hz**
Power consumption:	**33 W**
Recording system:	**DVD video recording standards (DVD-RAM),** **DVD video standards (DVD-R)**
Recordable discs:	**12 cm 4.7 GB DVD-RAM** **12 cm 9.4 GB DVD-RAM** **8 cm 2.8 GB DVD-RAM** **12 cm 4.7 GB DVD-R** **8 cm 1.4 GB DVD-R** **(for General Ver. 2.0)**
Recording time:	**Maximum 360 min.** **(with 4.7 GB disc)** **XP: Approx. 60 minutes** **SP: Approx. 120 minutes** **LP: Approx. 240 minutes** **EP: Approx. 360 minutes**
Region Number:	**Region No.2**
Playable discs:	**12 cm 4.7 GB DVD-RAM** **12 cm 9.4 GB DVD-RAM** **8 cm 2.8 GB DVD-RAM** **12 cm 4.7 GB DVD-R** **8 cm 1.4 GB DVD-R** **(for General Ver. 2.0)** **DVD-Video** **CD-Audio (CD-DA)** **VideoCD** **CD-R/RW** **(CD-DA, Video CD MP3 formatted discs)**
Audio	

Recording system:	**Dolby Digital, 2ch, Linear PCM (XPmode, 2ch)**	
Audio In:	**AV1/AV2 (21 pin) AV3/AV4 (pin jack)**	
Input Level:	**Standard: 0.5 Vrms**	
	Full scale: 2 Vrms at 1k Hz	
Input Impedance:	**More than 10k ohm**	
Audio Out:	**AV1/AV2 (21 pin) Audio Out (pin jack)**	
Output Level:	**Standard: 0.5 Vrms**	
	Full scale: 2 Vrms at 1k Hz	
Output Impedance:	**less than 1k ohm**	
Digital Audio Out:	**Optical terminal (PCM, Dolby Digital, DTS, MPEG)**	
Television System		
Tuner System:	**PAL I 75 ohm terminated (For E60EB)**	
	PAL B/ G/ H 75 ohm terminated (For E60EG)	
Channel Coverage:		
DMR-E60EB only	**UHF:**	**CH 21-68**
DMR-E60EG only	**VHF:**	**CH E2-E12, A-H2 (For Italy)**
	UHF:	**CH 21-69**
	CATV:	**CH S01-S05 (S1-S3)**
		S1-S20 (M1-U10)
		S21-S41 [8MHz, RASTER]
RF Converter Output:	**UHF:**	**CH21-68, 71 ± 3dB μ 75 ohm**
		(For the E60EB)
		Not provided
		(For the E60EG)
Video		
Video System:	**PAL colour signal, 625 lines, 50 fields**	
	NTSC colour signal, 525 lines, 60 fields	
Recording system:	**MPEG2 (Hybrid VBR)**	
Video in:	**AV1/AV2 (21 pin), AV3/AV4 (pin jack)**	
	1Vp-p 75 ohm, terminated	
S-Video in:	**AV2 (21 pin), AV3/AV4 (S terminal)**	
	1Vp-p 75 ohm, terminated	
RGB In:	**AV2 (21 pin), 0.7Vp-p (PAL) 75 ohm, terminated**	
Video Out:	**AV1/AV2 (21 pin), Video Out (pin jack)**	
	1Vp-p 75 ohm, terminated	
S-Video Out:	**AV1 (21 pin), S-Video Out(S terminal)**	
	1Vp-p 75 ohm, terminated	
RGB Out:	**AV1 (21 pin) 0.7Vp-p (PAL) 75 ohm, terminated**	
DV Input (PAL/NTSC):	**4 pin**	
SD/PC Card Slot		

SD Card Slot:	SD Memory Card Slot / PC Card Slot : PC Card TYPE □U
Compatible Media (SD Card Slot):	SD Memory Card, Multi Media Card
Compatible Media (PC Card Slot):	A PC Card adaptor conforming to PC Card Standards, ATA Flash PC Card, PC Card Adaptor (SD Memory Card, D Picture Card, Micro Drive, Multi Media Card, Compact Flash, Smart Media, Memory Stick), Mobilehard disk
Format:	FAT12, FAT16
Image File Format:	JPEG conforming DCF (Design rule for Camera File System), TIFF (Uncompressed RGB chunky), DPOF Compatible
Number of pixels:	320 x 240 to 6144 x 4096 / Sub sampling 4:2:2 or 4:2:0
Dimensions(W)x(H)x(D):	Approx. 430x79x283 mm
Mass:	Approx. 4.0 Kg
Operating Temperature:	5 °C-40°C
Operating Humidity range:	10 %-80 % RH (no condensation)
LEASER Specification	
Class 1 LASER Product	
Wave Length:	775-815nm, 655-666nm
Laser Power:	No hazardous radiation is emitted with the safety protection

Solder:

This model uses lead free solder (PbF).

Notes:

Mass and dimensions shown are approximate.

Specifications are subject to change without notice.

Notes:

The part of DVD RAM Drive (VXY1772) is listed separately.

Please refer to ORDER NO. RAM0301002C0.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. SAFETY PRECAUTIONS

1.1. GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit

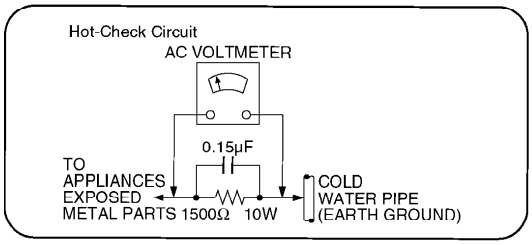
is found, replace all parts which have been overheated or damaged by the short circuit.

2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1



1.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1 .)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.

5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current mu3st not exceed 1/2 milliamp. In case a measurement is outsideof the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

2. PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**

6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

CAUTION:

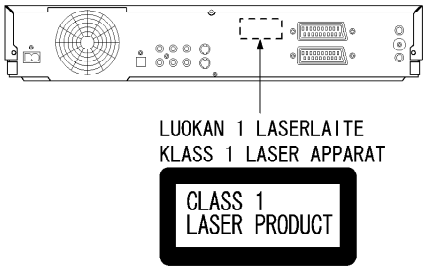
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.
Wave length: 775-815 nm/655-666 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

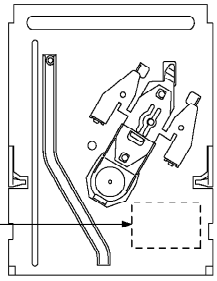
ACHTUNG:

Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit.
Wellenlänge: 775-815 nm/655-666 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungan der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.



DANGER	– VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION	– VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION	– RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	– SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	– AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	– SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	– SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	– SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注 意	– 打开时有可见及不可见激光辐射，避免激光束照射。
注 意	– ここを開くと可視及び不可視のレーザー光が出ます。ビームを直視内こう。当たらないでください。 RQLS0333



CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. Remove the Top cover and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.

2. Unsolder the Lithium Batteries: B7501 and then replace it into new one.
(As shown in 16.2. The Main P.C.B.)

NOTE:

The lithium battery is a critical component. (Type No.: CR2354-1GUF Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

(For French)

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

(For German)

VORSICHT

Bei einer falsch eingesetzten Batterie besteht Explosionsgefahr. Nur mit einer vom gleichen Typ ersetzen.
Verbrauchte Batterien beim Fachhändler oder einer Sammelstelle für Sonderstoffe abliefern.

(For Swedish)

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

(For Norwegian)

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning má kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

(For Finnish)

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control,please set it to 700 ± 20°F (370 ± 10°C).

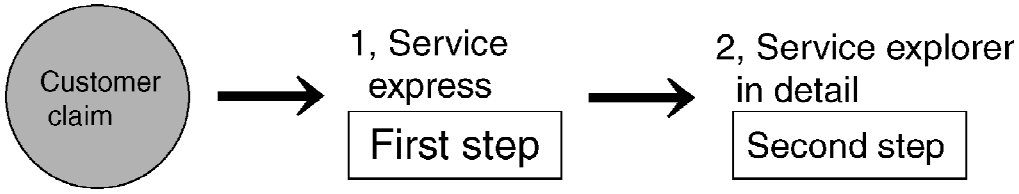
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).

- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

6. Service Explorer

The Service Explorer provides information about all possible causes based on the symptoms

and gives step by step instructions making parts. It consists of two parts, based on applications: the first is the “Service Explorer Express” andthe second is “Service Explorer in Detail”.



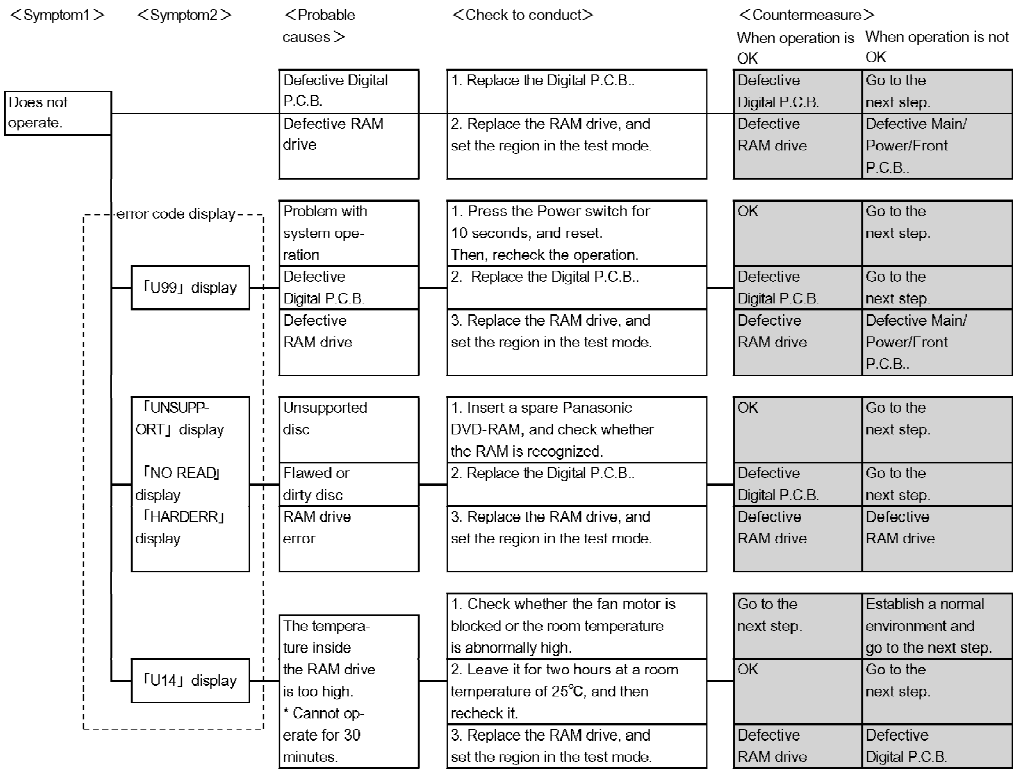
1. For details about the service / test modesetting mentioned in the description, refer to the “List of various modes”.

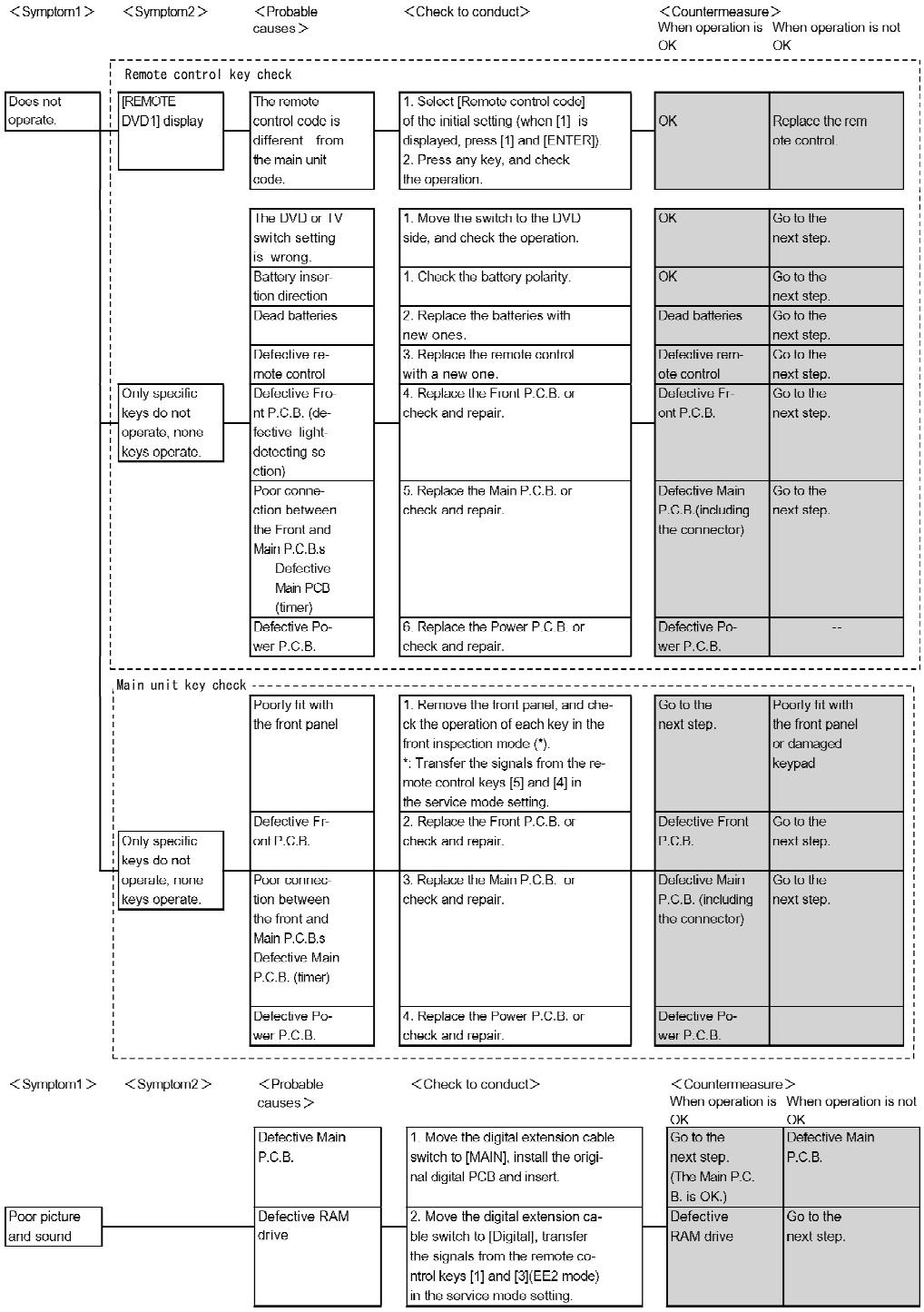
- Service mode setting: While the power is off, press TIME SLIP, STOP, and OPEN / CLOSE simultaneously for five seconds.
- Process mode 1 setting: While the power is off, press SKIP(R), TIME SLIP, and OPEN / CLOSE simultaneously for five seconds.

2. For disassembly and replacement procedures, refer to the “Assembling and Disassemling”.

6.1. Service Explorer Express

The following steps allow you to check each block separately (Digital P.C.B., RAM drive, Main / Power Supply / Front P.C.B.).
Items needed: RAM drive, Digital P.C.B., Digital extension cable, Remote control.
Conditions: Nothing special.


＜Symptom1＞
＜Symptom2＞
＜Probable causes＞
＜Check to conduct＞
＜Countermeasure＞
When operation is OK
When operation is not OK
Does not operate.
Defective Digital P.C.B.
1. Replace the Digital P.C.B..
Defective Digital P.C.B.
Go to the next step.
Defective RAM drive
2. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective Main/ Power/Front P.C.B..
error code display
Problem with system operation
1. Press the Power switch for 10 seconds, and reset. Then, recheck the operation.
OK
Go to the next step.
「U99」display
Defective Digital P.C.B.
2. Replace the Digital P.C.B..
Defective Digital P.C.B.
Go to the next step.
Defective RAM drive
3. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective Main/ Power/Front P.C.B..
「UNSUPPORT」display
「NO READ」display
「HARDERR」display
Unsupported disc
1. Insert a spare Panasonic DVD-RAM, and check whether the RAM is recognized.
OK
Go to the next step.
Flawed or dirty disc
2. Replace the Digital P.C.B..
Defective Digital P.C.B.
Go to the next step.
RAM drive error
3. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective RAM drive
「U14」display
The temperature inside the RAM drive is too high.
* Cannot operate for 30 minutes.
1. Check whether the fan motor is blocked or the room temperature is abnormally high.
Go to the next step.
Establish a normal environment and go to the next step.
2. Leave it for two hours at a room temperature of 25℃, and then recheck it.
OK
Go to the next step.
3. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective Digital P.C.B.



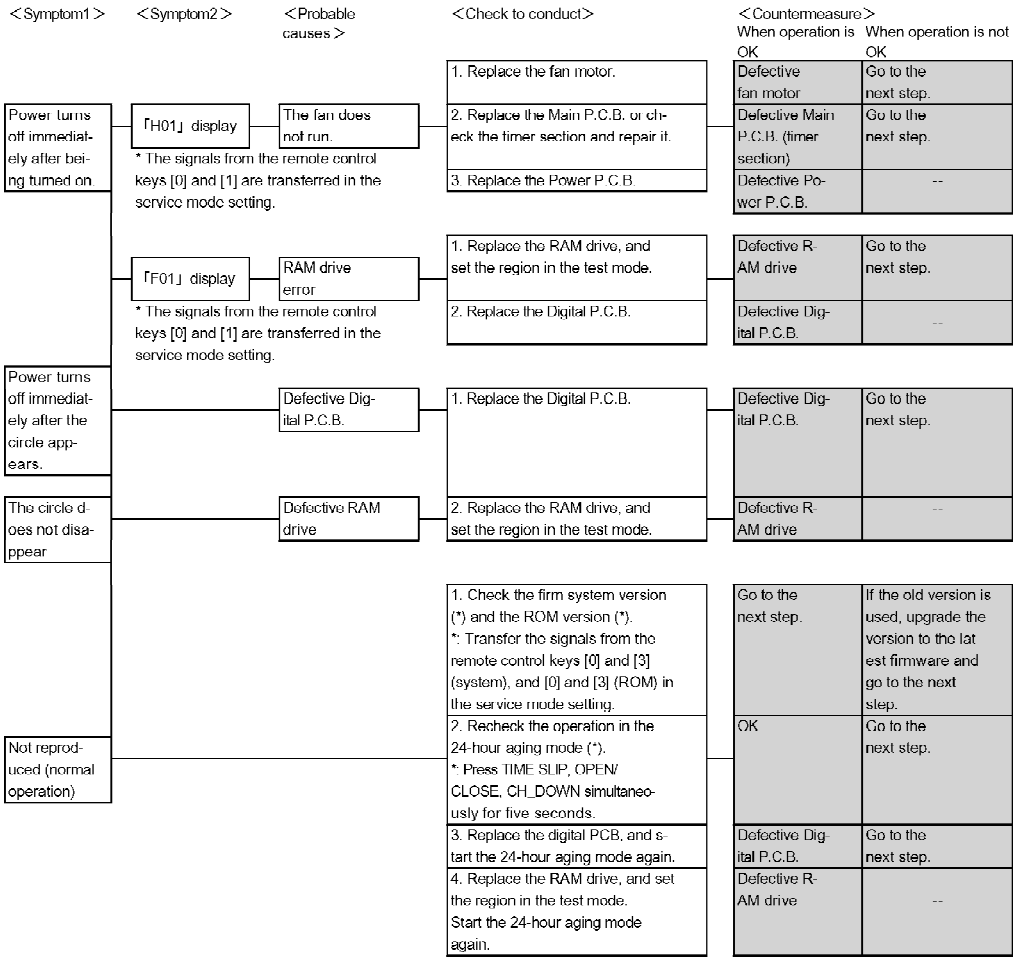
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	<Countermeasure> When operation is not OK
Remote control key check					
Does not operate.	[REMOTE DVD 1] display	The remote control code is different from the main unit code.	1. Select [Remote control code] of the initial setting (when [1] is displayed, press [1] and [ENTER]) 2. Press any key, and check the operation.	OK	Replace the remote control.
		The DVD or TV switch setting is wrong.	1. Move the switch to the DVD side, and check the operation.	OK	Go to the next step.
		Battery insertion direction	1. Check the battery polarity.	OK	Go to the next step.
		Dead batteries	2. Replace the batteries with new ones.	Dead batteries	Go to the next step.
		Defective remote control	3. Replace the remote control with a new one.	Defective remote control	Go to the next step.
	Only specific keys do not operate, none keys operate.	Defective Front P.C.B. (defective light-detecting section)	4. Replace the Front P.C.B. or check and repair.	Defective Front P.C.B.	Go to the next step.
		Poor connection between the Front and Main P.C.B.s Defective Main PCB (timer)	5. Replace the Main P.C.B. or check and repair.	Defective Main P.C.B.(including the connector)	Go to the next step.
		Defective Power P.C.B.	6. Replace the Power P.C.B. or check and repair.	Defective Power P.C.B.	--
Main unit key check					
	Only specific keys do not operate, none keys operate.	Poorly fit with the front panel	1. Remove the front panel, and check the operation of each key in the front inspection mode (*). *: Transfer the signals from the remote control keys [5] and [4] in the service mode setting.	Go to the next step.	Poorly fit with the front panel or damaged keypad
		Defective Front P.C.B.	2. Replace the Front P.C.B. or check and repair.	Defective Front P.C.B.	Go to the next step.
		Poor connection between the front and Main P.C.B.s Defective Main P.C.B. (timer)	3. Replace the Main P.C.B. or check and repair.	Defective Main P.C.B. (including the connector)	Go to the next step.
		Defective Power P.C.B.	4. Replace the Power P.C.B. or check and repair.	Defective Power P.C.B.	

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	<Countermeasure> When operation is not OK
Poor picture and sound		Defective Main P.C.B.	1. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main P.C.B. is OK.)	Defective Main P.C.B.
		Defective RAM drive	2. Move the digital extension cable switch to [Digital], transfer the signals from the remote control keys [1] and [3](EE2 mode) in the service mode setting.	Defective RAM drive	Go to the next step.

6.2. Service Explorer in Detail

6.2.1. Does not operate

items needed: RAM drive, digital P.C.B., remote control.
Conditions: Nothing special.


<Symptom1>
<Symptom2>
<Probable causes>
<Check to conduct>
<Countermeasure>
When operation is OK
When operation is not OK
Power turns off immediately after being turned on
「H01」 display
The fan does not run.
* The signals from the remote control keys [0] and [1] are transferred in the service mode setting.
1. Replace the fan motor.
Defective fan motor
Go to the next step.
2. Replace the Main P.C.B. or check the timer section and repair it.
Defective Main P.C.B. (timer section)
Go to the next step.
3. Replace the Power P.C.B.
Defective Power P.C.B.
--
「F01」 display
RAM drive error
* The signals from the remote control keys [0] and [1] are transferred in the service mode setting.
1. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Go to the next step.
2. Replace the Digital P.C.B.
Defective Digital P.C.B.
--
Power turns off immediately after the circle appears.
Defective Digital P.C.B.
1. Replace the Digital P.C.B.
Defective Digital P.C.B.
Go to the next step.
The circle does not disappear
Defective RAM drive
2. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
--
Not reproduced (normal operation)
1. Check the firm system version (*) and the ROM version (*).
*: Transfer the signals from the remote control keys [0] and [3] (system), and [0] and [3] (ROM) in the service mode setting.
Go to the next step.
If the old version is used, upgrade the version to the latest firmware and go to the next step.
2. Recheck the operation in the 24-hour aging mode (*).
*: Press TIME SLIP, OPEN/CLOSE, CH_DOWN simultaneously for five seconds.
OK
Go to the next step.
3. Replace the digital PCB, and start the 24-hour aging mode again.
Defective Digital P.C.B.
Go to the next step.
4. Replace the RAM drive, and set the region in the test mode.
Start the 24-hour aging mode again.
Defective RAM drive
--

6.2.2. Poor Pictures

Items needed: RAM drive, Digital P.C.B., RF cable, AV cable.

Conditions: Check with TU IN-AV OUT(EE). When recording or playback is partially needed, follow the instructions.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	<Countermeasure> When operation is not OK
Noise in the picture and sound. No picture color.		The signal is too weak.	1.Confirm wheather connecting through VCR.	Go to the next step.	Connect to recorder directly.
		The tuner signal reception is too weak.	2. Reconnect the RF cable to TV, and check the picture and sound.	Go to the next step.	Poor signal reception
		The RF cable is badly damaged.	3. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		The AV cable is badly damaged.	4. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B..	5. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	6. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
No picture or sound is output.		Defective RF cable	1. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		Defective AV cable	2. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B.	3. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	4. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
Picture and sound are not synchronized		Poor turner signal reception.	1. Select a different broadcast channel, and check.	Poor signal reception	Go to the next step.
		Defective Digital P.C.B..	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	--

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	<Countermeasure> When operation is not OK
Block noise		Defective RAM drive and Digital P.C.B..	1. Replace the RAM drive, and set the region in the test mode.	(Auto recording and playback) Defective RAM drive	Go to the next step.
			2. Replace the Digital P.C.B..	(Auto recording and playback) Defective Digital P.C.B.	--
Not reproduced (normal operation)			1. Check the firm system version (*) and the ROM version (*). *: Transfer the signals from the remote control keys [0] and [3] (system), and [0] and [3] (ROM) in the service mode setting.	Go to the next step.	If the old version is used, upgrade the version to the latest firmware and go to the next step.
			2. Recheck the operation in the 24-hour aging mode (*). *: Press TIME SLIP, OPEN/CLOSE, CH_DOWN simultaneously for five seconds.	OK	Go to the next step.
			3. Replace the Digital PCB, and start the 24-hour aging mode again.	Defective Digital P.C.B.	Go to the next step.
			4. Replace the RAM drive, and set the region in the test mode. Start the 24-hour aging mode again.	Defective RAM drive	--

6.2.3. Some defective functions

Items needed: PC card adaptor (media), Digital P.C.B.
conditions: Nothing special

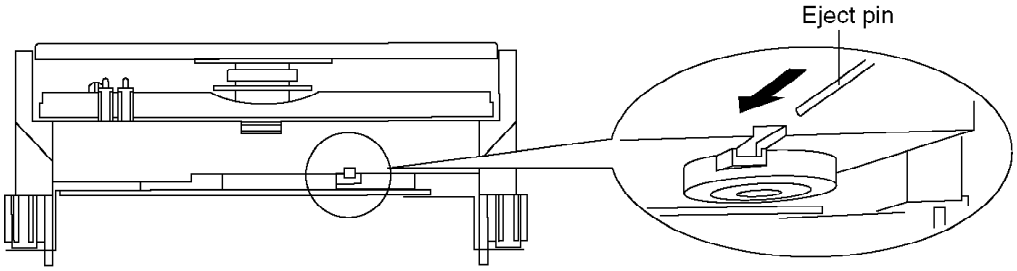
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not NG
The PC card does not operate		Poor seating of the PC card	1.Check whether [CARD] appears on the FL display	OK	Go to the next step.
		Defective PC card P.C.B.	2.insert recordable media and check the operation in the PC card inspection mode(*). *Transfer the signals from the remote control keys [7] and [1] in the service mode setting. 3.Insert recorded media and check the operation in the JPEG decode inspection mode(*). *Transfer the signals from the remote control keys [7] and [2] in the service mode setting.	OK	Go to the next step.
		Poor connection with the PC card	4.Remove the front panel, and make sure that the mechanical section and connector on the PC card slot are connected.	OK	Go to the next step.
		Defective Digital P.C.B.	5.Replace the Digital P.C.B.	Defective Digital P.C.B.	---

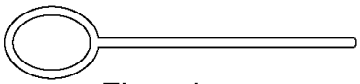
6.2.4. Other

Items needed: Digital P.C.B., HDD.

Conditions: Nothing special.

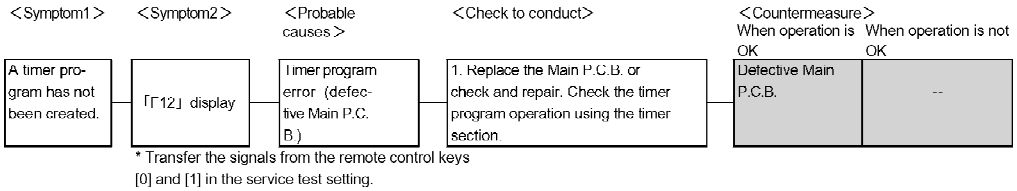
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
No media can be played.		Erasing the AV ID	1. When the tray is open, press SKIP(R) and SKIP(F) simultaneously for five seconds.	When the operation is normal, it is OK. If it is abnormal, go to the next step.	Go to the next step.
All Key is prohibited		Child lock release	1. Press "ENTER" and "RETURN" by remote controller simultaneously until "XHOLD" is disappeared.	When the operation is normal, it is OK. If it is abnormal, go to the next step.	Go to the next step.
The disc cannot be removed. (Sales demonstration LOCK)		Sales demonstration LOCK	1. Press the OPEN or CLOSE button, and make sure that the [LOCK] display is brought up. Then, when the power is on, press STOP and POWER simultaneously for five seconds.	If [UNLOCK] appears and the tray opens, it is OK.	--
The disc cannot be removed. (Malfunction)		The disc is stuck because the deck is not working properly.	1. When the power is off, press STOP and CH_UP simultaneously for five seconds.	If the tray opens, it is OK.	Go to the next step.
			2. Remove the front panel, remove the disk using an eject pin. (Refer to the following drawing.)	If the disc can be ejected, it is OK	Go to the next step.





Eject pin
(Part number: JZS0484)

Turn the gear with an eject pin.



7. Standard Inspection Specifications after Making Repairs

7.1. Standard Inspection Specification

After making repairs, we recommend performing the following inspection, to check normal operation.

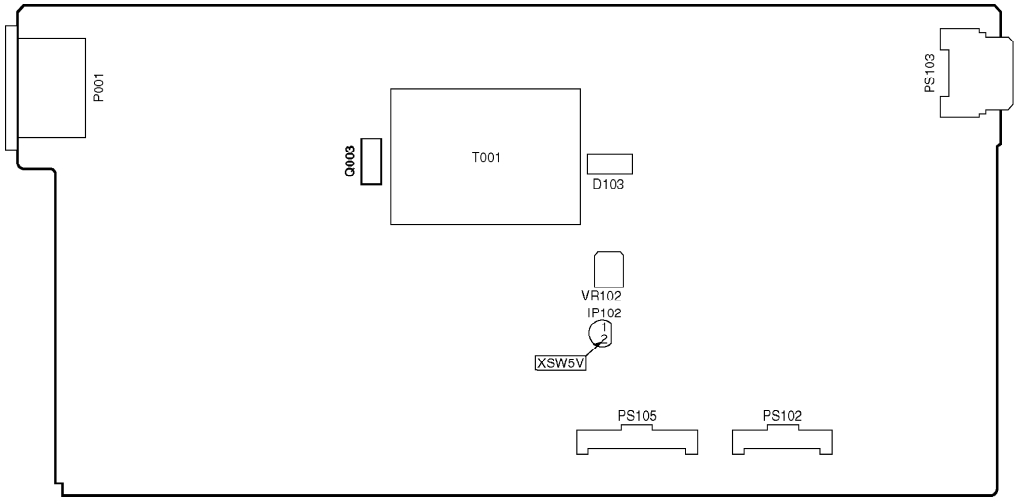
No.	Procedure	Item to Check
1	Turn on the power.	The Panasonic RAM disc should be reco
2	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the pic sound or operation.
3	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the pic sound or operation.
4	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the pic sound or operation.
5	In case of that the trouble is caused by SD/PC card and/or DV terminal.	1) SD/PC card: Check to be able to displa copy the picture. 2) DV terminal: Check to be able to recor DVC.
6	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] appear FL displays.
7	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [FACT INIT] appears in th display. After checking it, turn the power off.
8	To replace the RAM drive, reset all the information (including the laser time) in the process mode 1 setting. *The laser time is the total time that DVDs or CDs have been played or recorded.It is recorded on the Digital P.C.B..	Make sure that [TEST L1] appears in the l display. After checking it, turn the power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Item	Contents	Check
	Block noise		Distorted sound	
	Crosscut noise		noise (static, background noise, etc.)	
	Dot noise		The sound level is too low.	
Picture	Picture disruption	Sound	The sound level is too high.	
	Not bright enough		The sound level changes.	
	Too bright			
	Flickering color			
	Color fading			

7.2. Power Supply +5V Adjustment Procedure

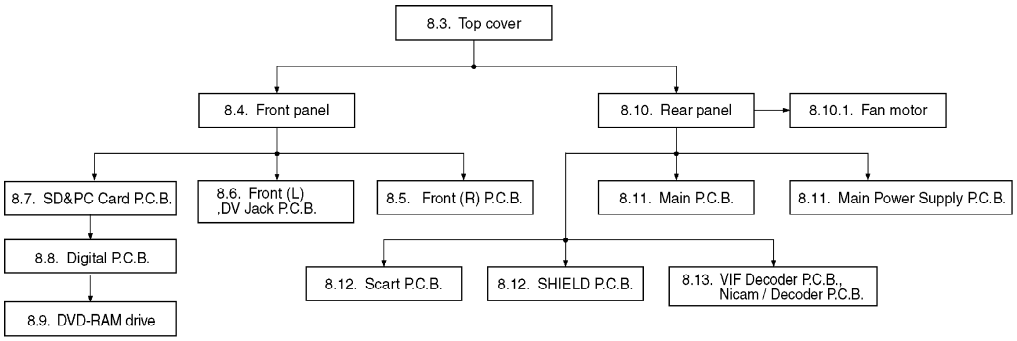
1. When the T001, Q003 and D103 is replaced, adjust the “XSW5V” measuring point (IP102-2) in the VR102 to the value between 5.12 - 5.15V.



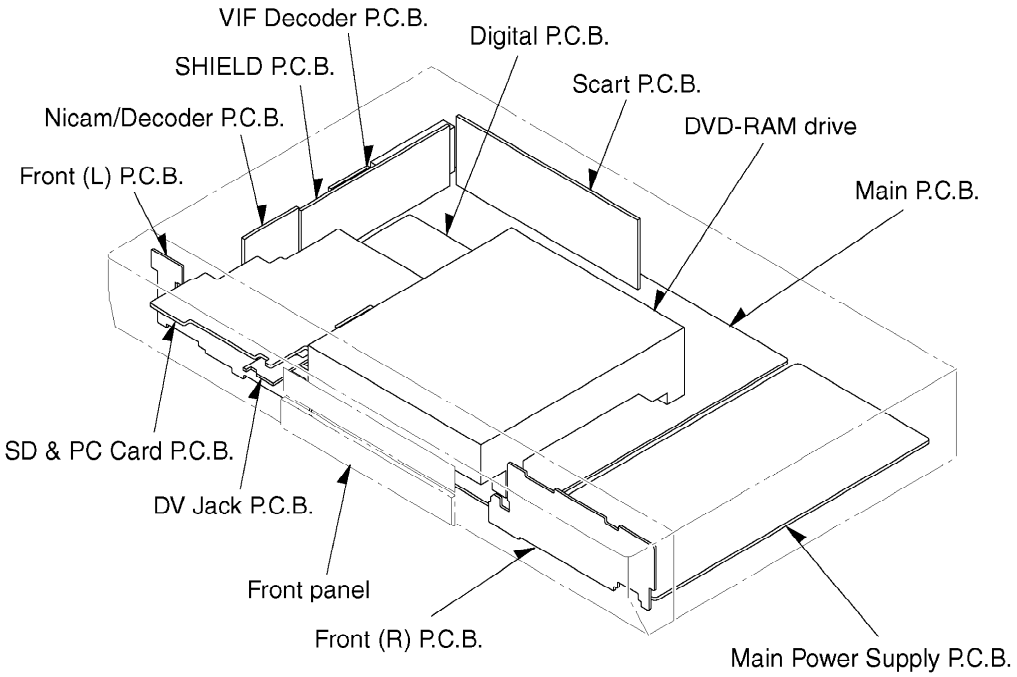
8. Assembling and Disassembling

8.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart below.



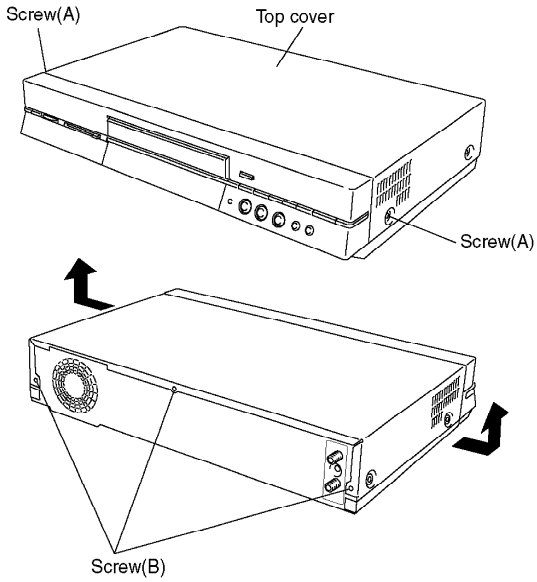
8.2. P.C.B. Positions



8.3. The Top Cover

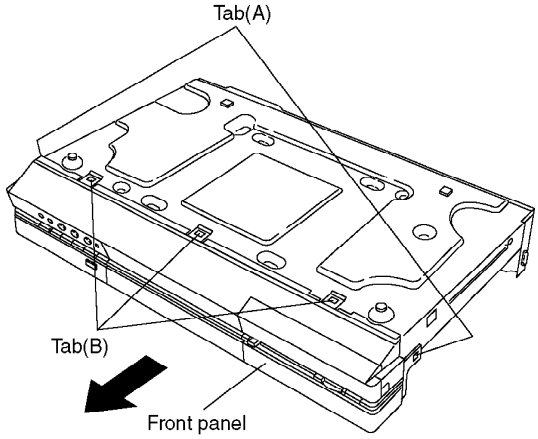
1. Remove the 2 screws (A) and 3 screws (B).

2. Open the both ends at the front side of the Top cover a bit and lift the Top cover in the direction of the arrows.

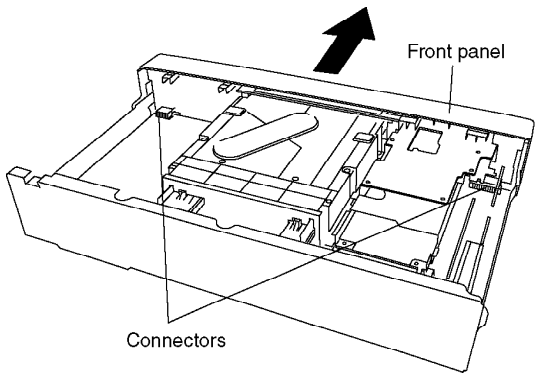


8.4. The Front panel

1. Remove the 2 tab (A) and 3 tab (B) in this order. (The tab (A) and the tab (B) should be removed at the same time, respectively.)

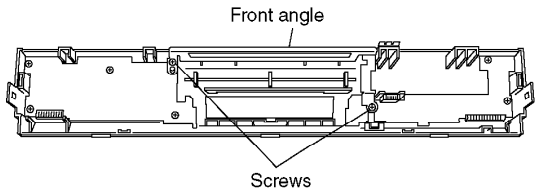


2. Move the front panel to your side slowly and remove it.

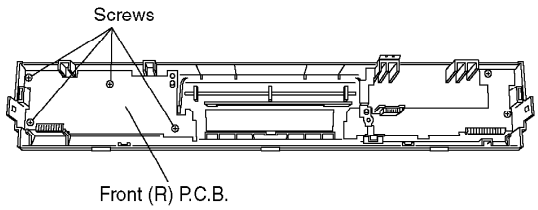


8.5. The Front (R) P.C.B.

1. Remove the 2 screws and remove the Front Angle with Earth Plate.

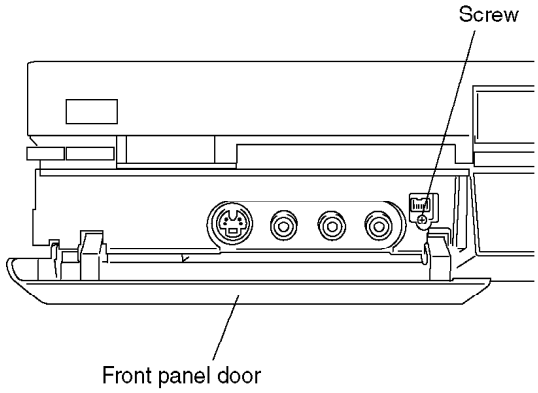


2. Remove the 4 screws and remove the Front (R) P.C.B.

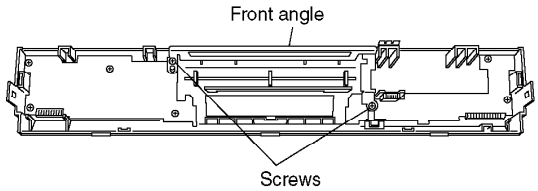


8.6. The Front (L) P.C.B. and DV Jack P.C.B.

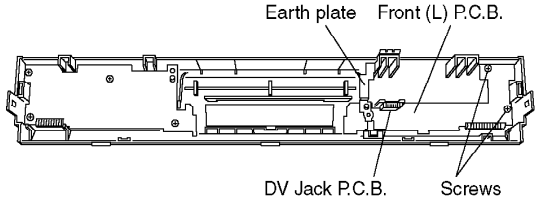
1. Remove 1screw inside of the Front panel door with a precision screw driver.



2. Remove the 2 screws and remove the Front angle with Earth Plate.



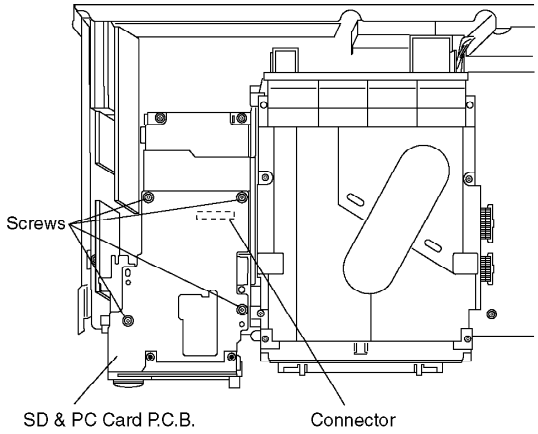
3. Remove the 2 screws with Earth plate and remove the Front (L) and DV Jack P.C.B.



8.7. The SD & PC card P.C.B.

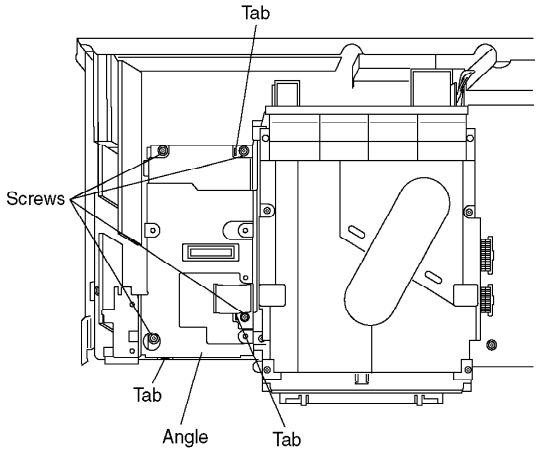
1. Remove the 4 screws.

2. Pull out the SD & PC card P.C.B. vertically.



8.8. The Digital P.C.B.

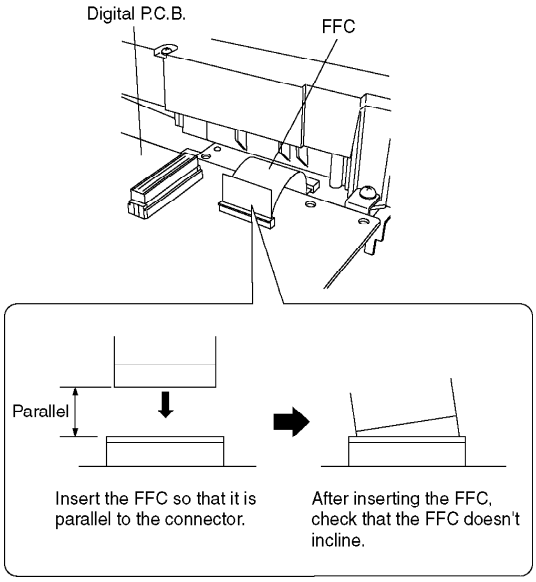
1. Remove the 4 screws and 3 tabs and remove the angle.



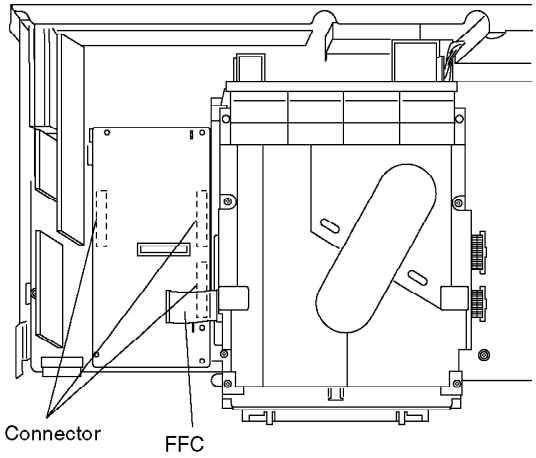
2. Remove the FFC.

CAUTION:

When replacing Digital P.C.B., pay attention as below.


Digital P.C.B.
FFC
Parallel
Insert the FFC so that it is parallel to the connector.
After inserting the FFC, check that the FFC doesn't incline.

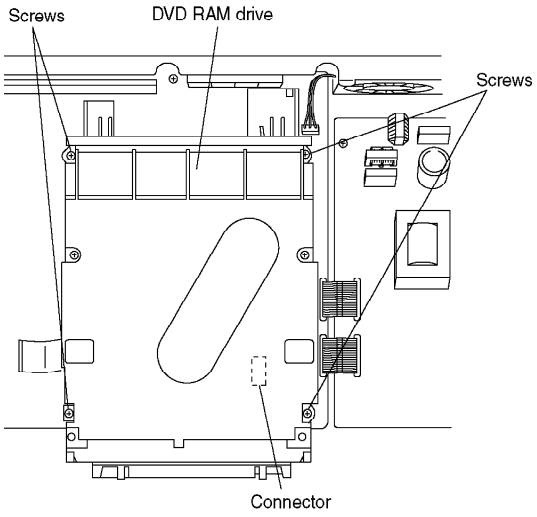
3. Pull out the Digital P.C.B. vertically with paying attention to 3 Connectors.



8.9. The DVD-RAM Drive

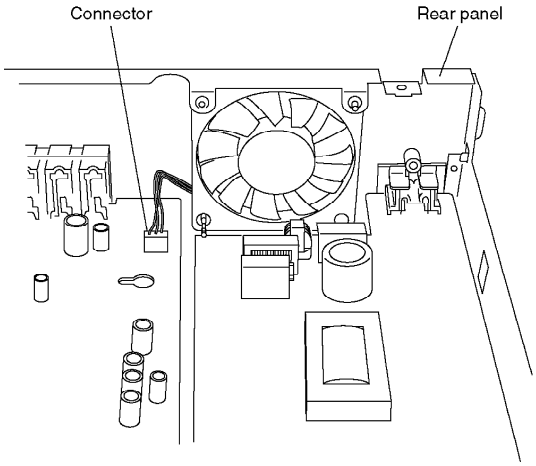
1. Remove the 4 screws.

2. Pull out the DVD-RAM Drive vertically and remove the connector.



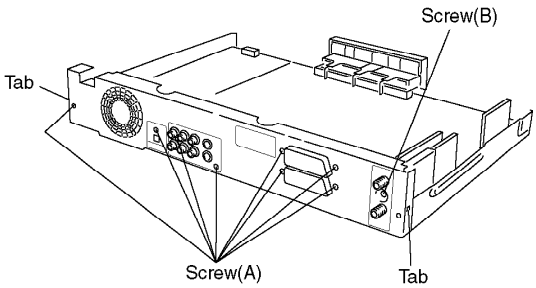
8.10. The Rear panel

1. Remove the Fan Motor connector.



2. Remove the 8 screws (A) and 1screw (B).

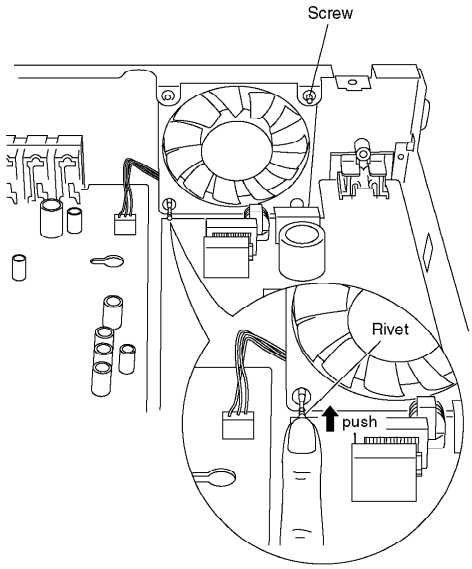
3. Remove the 2 tabs and remove the Rear panel.



8.10.1. In case of removing Fan motor from Rear panel

1. Remove a screw.

2. Push tip of rivet to remove it.



8.11. The Main Power Supply P.C.B. and Main P.C.B.

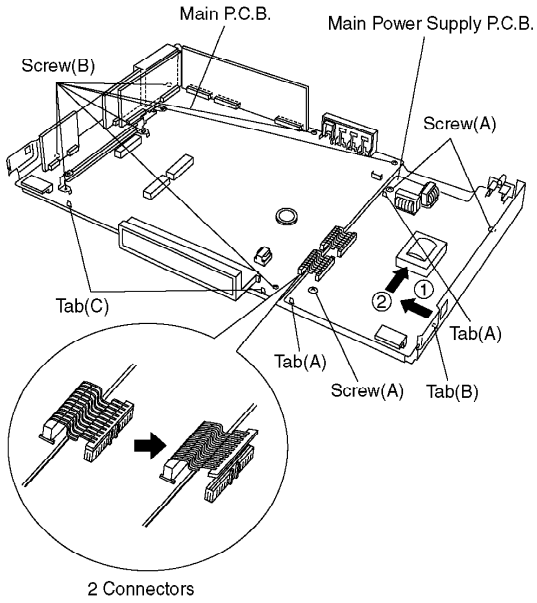
1. Remove the 2 connectors.

2. Remove the 3 screws (A) and 2 tab (A).

3. Remove the Main Power Supply P.C.B and tab (B) , pull out it in the direction of arrow.① to②.

4. Remove the 6 screws (B) and 2 tab (C).

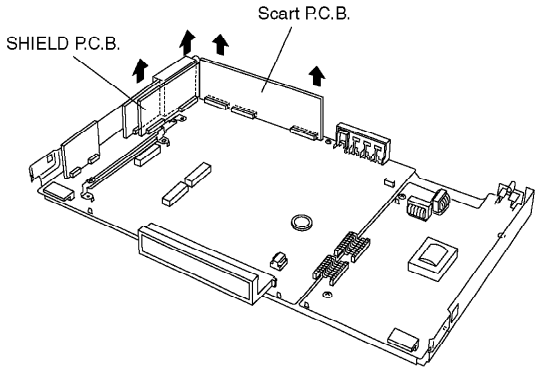
5. Remove the Main P.C.B.



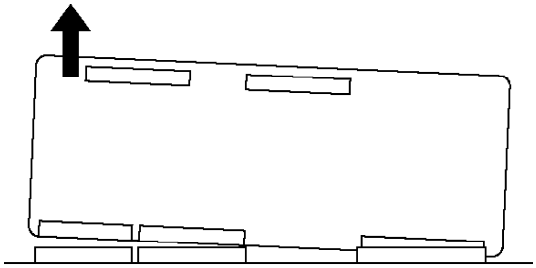
8.12. The Scart P.C.B. and SHIELD P.C.B.

1. Pull out the Scart P.C.B. and SHIELD P.C.B. in the direction of the

arrow.

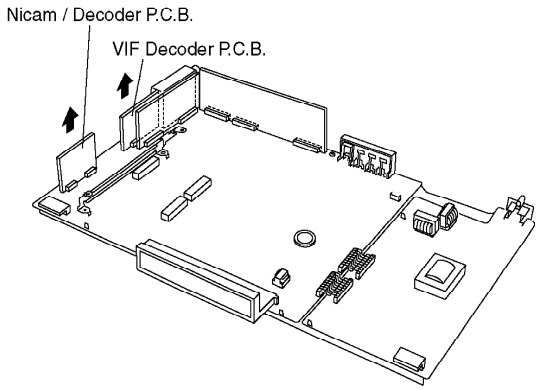


Note:
Pull out the Scart P.C.B. and SHIELD P.C.B. after removing at a slant.



8.13. The VIF Decoder P.C.B. and Nicam/Decoder P.C.B.

1. **Remove the solder.**
2. **Pull out the VIF Decoder P.C.B. and Nicam/Decoder P.C.B. in the direction of the arrow.**



9. Service Positions

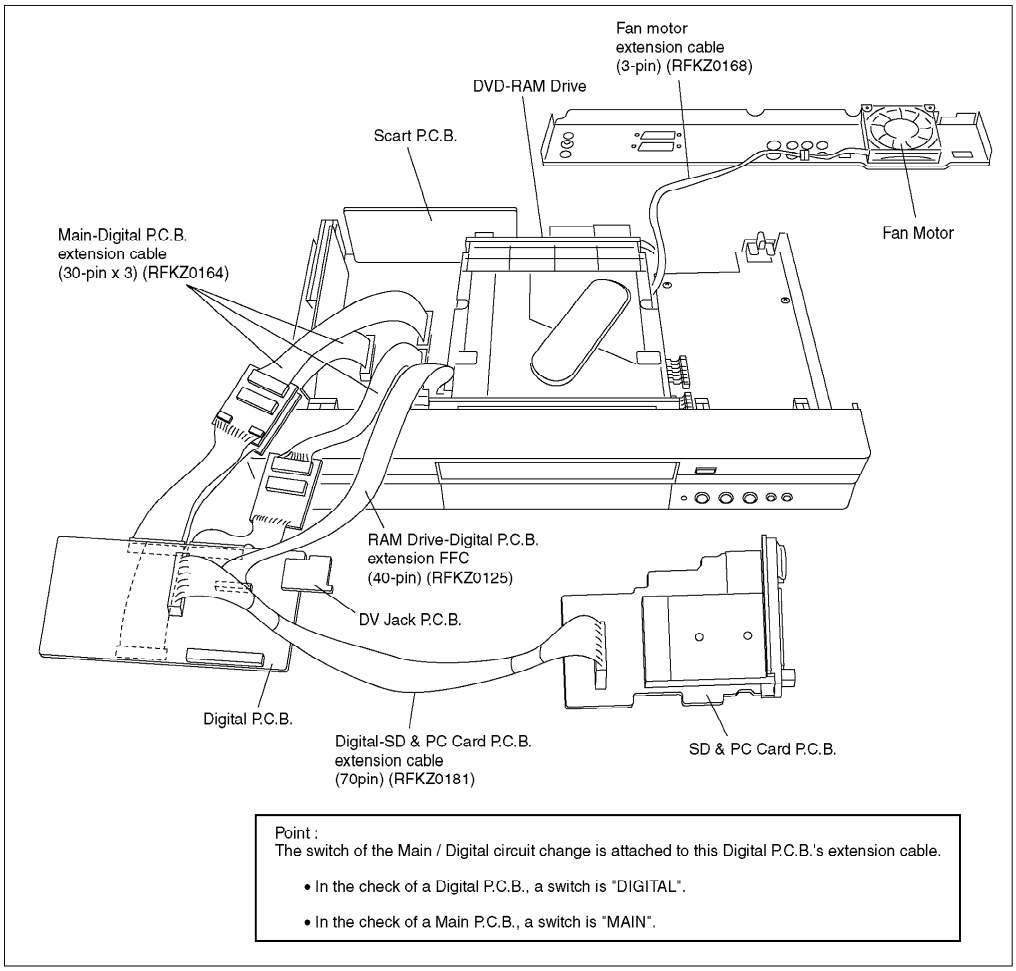
9.1. Checking procedure

Note:
For the disassembling procedure, see the section 8.

9.2. Checking the Digital P.C.B., SD & PC Card P.C.B. and Scart P.C.B.

1. Remove the Top Cover.
2. Remove the Rear Panel.
3. Remove the SD & PC Card P.C.B. and angle.
4. Remove the FFC (RAM Drive - Digital P.C.B.).
5. Remove the Digital P.C.B.
6. Use the extension cable (RFKZ0168) to connect the Main P.C.B. and Fan Motor.
7. Use the extension cable (RFKZ0164) to connect the Main P.C.B. and Digital P.C.B.
8. Use the extension FFC (RFKZ0125) to connect the RAM Drive and Digital P.C.B.
9. Use the extension cable (RFKZ0181) to connect the Digital P.C.B. and SD & PC Card P.C.B.
10. Connect the Digital P.C.B. and DV Jack P.C.B.

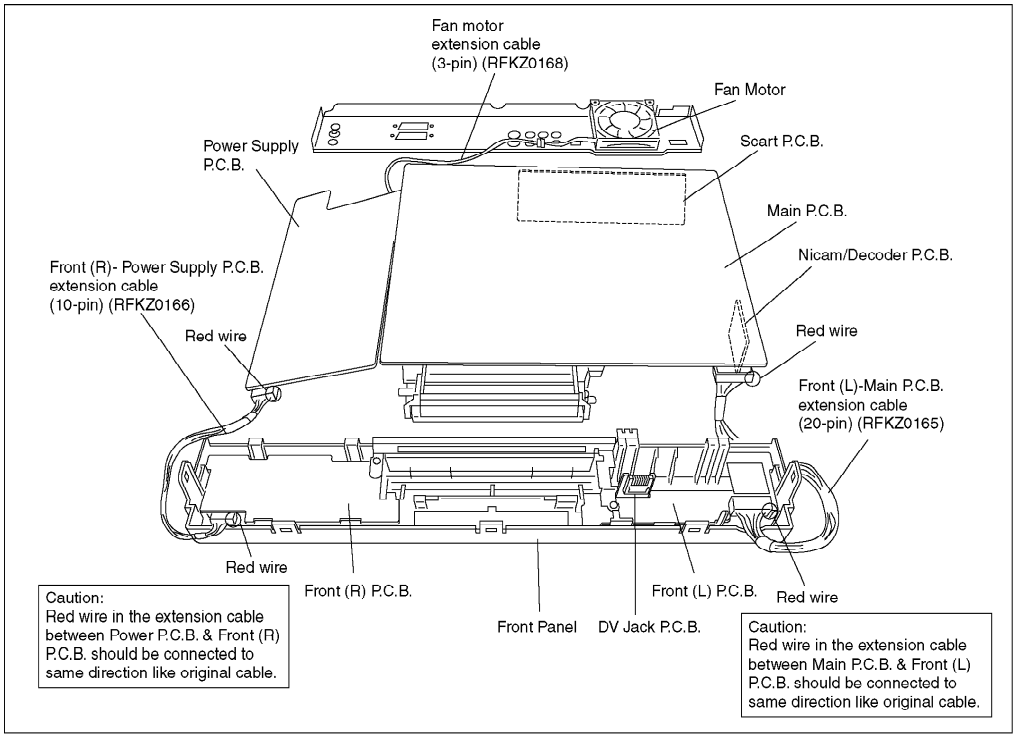
Service tools	
Extension FFC (RAM Drive - Digital P.C.B.)	RFKZ0125 (40Pin)
Extension Cable (Main P.C.B. - Digital P.C.B.)	RFKZ0164 (30Pin x 3)
Fan motor extension cable	RFKZ0168 (3Pin)
Extension Cable (Digital P.C.B. SD & PC Card P.C.B.	RFKZ0181 (70Pin)


Fan motor
extension cable
(3-pin) (RFKZ0168)
DVD-RAM Drive
Scart P.C.B.
Fan Motor
Main-Digital P.C.B.
extension cable
(30-pin x 3) (RFKZ0164)
RAM Drive-Digital P.C.B.
extension FFC
(40-pin) (RFKZ0125)
DV Jack P.C.B.
Digital P.C.B.
Digital-SD & PC Card P.C.B.
extension cable
(70pin) (RFKZ0181)
SD & PC Card P.C.B.
Point :
The switch of the Main / Digital circuit change is attached to this Digital P.C.B.'s extension cable.
• In the check of a Digital P.C.B., a switch is "DIGITAL".
• In the check of a Main P.C.B., a switch is "MAIN".

9.3. Checking the Main P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Front Panel.**
3. **Remove the Rear Panel.**
4. **Remove the Power Supply P.C.B., Main P.C.B. and RAM Drive.**
5. **Use the extension cable (RFKZ0168) to connect the Main P.C.B. and Fan Motor.**
6. **Connect the Power Supply P.C.B., Main P.C.B. and RAM Drive.**
7. **Install to the service positions views.**
8. **Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front P.C.B. (L).**
9. **Use the extension cable (RFKZ0166) to connect the Power supply P.C.B. and Front P.C.B. (R).**

Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	**RFKZ0165 (20Pin)**
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	**RFKZ0166 (10Pin)**
Extension Cable (Fan motor)	**RFKZ0168 (3Pin)**

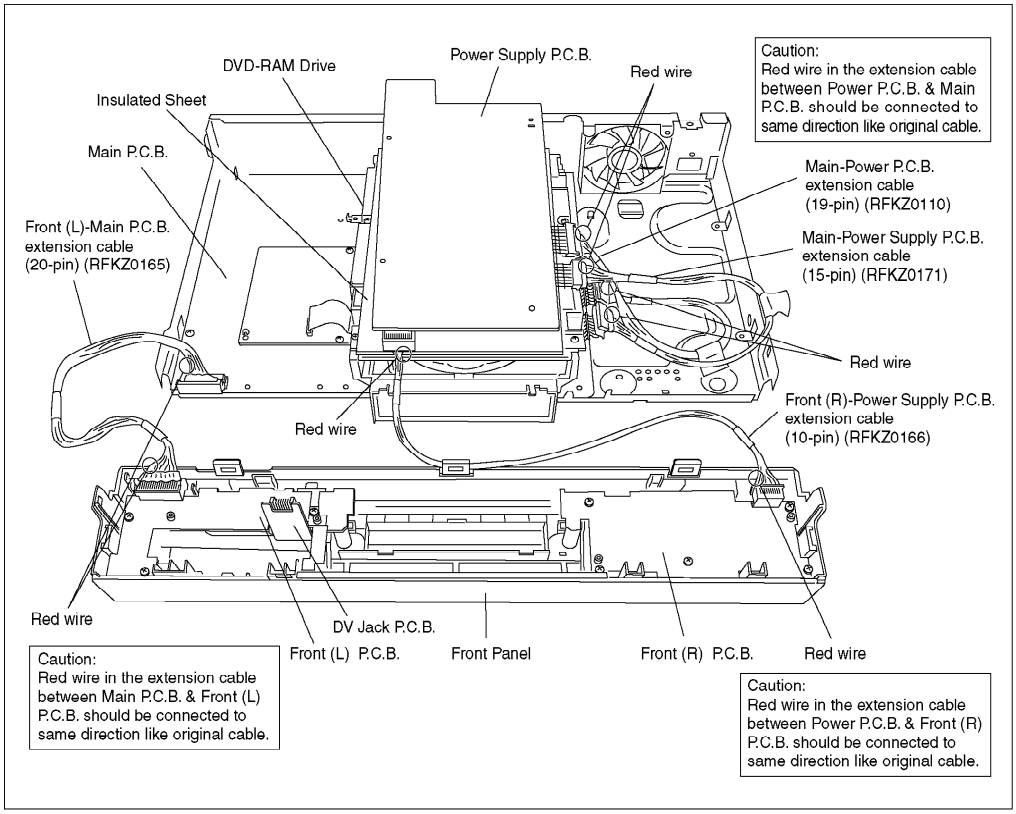

Fan motor extension cable (3-pin) (RFKZ0168)
Fan Motor
Power Supply P.C.B.
Scart P.C.B.
Main P.C.B.
Nicam/Decoder P.C.B.
Front (R)- Power Supply P.C.B. extension cable (10-pin) (RFKZ0166)
Red wire
Red wire
Front (L)-Main P.C.B. extension cable (20-pin) (RFKZ0165)
Red wire
Front (R) P.C.B.
Front Panel
DV Jack P.C.B.
Front (L) P.C.B.
Red wire
Caution:
Red wire in the extension cable between Power P.C.B. & Front (R) P.C.B. should be connected to same direction like original cable.
Caution:
Red wire in the extension cable between Main P.C.B. & Front (L) P.C.B. should be connected to same direction like original cable.

9.4. Checking the Power Supply P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Front Panel.**
3. **Remove the screw which fixed Rear Panel and AC Inlet on the Power Supply P.C.B..**
4. **Remove the Power Supply P.C.B., fix it on the insulation sheet.**
5. **Use the extension cables (RFKZ0110,RFKZ0171) to connect the Main P.C.B. and Power Supply P.C.B..**
6. **Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front (L) P.C.B.**

7. Use the extension cable (RFKZ0166) to connect the Power Supply P.C.B. and Front (R) P.C.B.

Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	**RFKZ0165 (20-pin)**
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	**RFKZ0166 (10-pin)**
Extension Cable (Main P.C.B. - Power supply P.C.B.)	**RFKZ0110 (19-pin)**
Extension Cable (Main P.C.B. - Power supply P.C.B.)	**RFKZ0171 (15-pin)**


DVD-RAM Drive
Power Supply P.C.B.
Red wire
Insulated Sheet
Main P.C.B.
Front (L)-Main P.C.B. extension cable (20-pin) (RFKZ0165)
Main-Power P.C.B. extension cable (19-pin) (RFKZ0110)
Main-Power Supply P.C.B. extension cable (15-pin) (RFKZ0171)
Red wire
Front (R)-Power Supply P.C.B. extension cable (10-pin) (RFKZ0166)
Red wire
Red wire
DV Jack P.C.B.
Front (L) P.C.B.
Front Panel
Front (R) P.C.B.
Red wire
Caution:
Red wire in the extension cable between Power P.C.B. & Main P.C.B. should be connected to same direction like original cable.
Caution:
Red wire in the extension cable between Main P.C.B. & Front (L) P.C.B. should be connected to same direction like original cable.
Caution:
Red wire in the extension cable between Power P.C.B. & Front (R) P.C.B. should be connected to same direction like original cable.

10. List of Various Mode

10.1. List of Various Buttons

Each buttons name	Functions
DVD	To turn power on or off on the DVD.
VIDEO Plus+ (Show View/G code)	To set timer program using G code/Show view/VIDEO Plus+
AV	To set AV input on the TV.
Numeric buttons(10key)	To put each number for selecting each functions.
CANCEL	To cancel maker.
SKIP(Reverse)/ (Forward)	To skip chapter or marker position for reverse or forward direction.
STOP	To stop the recording or playback .
PAUSE	To still for playback or pause for recording.
DIRECT NAVIGATOR/ TOP MENU	<PROGRAMME NAVIGATION> To display menu for recoeded program.
	<TOP MENU> (For only VCD or DVD-Video) To display top menu on the VCD or DVD-Video.
Cursor buttons	To move cursor position to select each menu.
FUNCTIONS	To display function menu.
TIMER	To turn timer function on or off.
PROG/CHECK	To display timer porgram menu.
TV	To turn power on or off on the TV.
DVD/TV	To select DVD or Tv operation.
REC	To set the recording.
DIRECT TV REC	To immediately record present TV program that you are watching on the TV. * Scart cable must be connected with TV. * Q-link function must be installed in the TV.
CH UP/DOWN	To select channel on the TV or DVD.
VOLUME UP/ DOWN	To control volume on the TV.

Each buttons name	Functions
SLOW/SEARCH	<SLOW> To set the slow mode during still.
	<SEARCH> To set the cue or review during playback.
PLAY/X1.3	<PLAY> To set playing back.
	<X1.3> To set the times 1.3 speed for playback by keep pressing playback button for more than 1 second.
PLAY LIST/ MENU	<PLAY LIST> To display play list.
	<MENU> (For only VCD or DVD-Video) To display menu on the VCD or DVD-Video.
RETURN	To return to previous condition.
MANUAL SKIP	To skip after 30seconds.
TIME SLIP	(HDD,RAM,DVD-R) To playback program being recorded by setting time duration for each 1minute during recording.
	(HDD,RAM,DVD-R) To playback recorded program by setting time duration for each 1minute.* During recording or playback,playback 30seconds previous by pressing the button.
REC MODE	To set recording speed.
F Rec	To frexible recording with best quality to caluculate recording rate within remaining recording time.
STATUS	To display product status,time status & present bit-rate.
INPUT SELECT	To set AV input on the DVD.
ERASE	To erase recorded program or playlist during playback.
AUDIO	To select audio with tuner input or playback sound.
FRAME (Reverse /Forward)	To set frame advance.

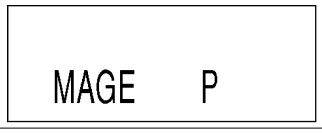
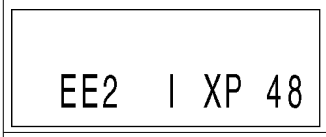
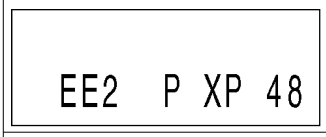
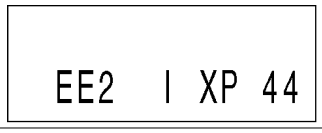
Each buttons name	Functions
POSITION MEMORY	To memorize STOP position for playing back again. * STOP position is erased by turning power off and openning tray.
MARKER	(DVD-RAM/-R)To put marker for making chapter.
AV LINK	To playback on the DVD and select AV1 mode on the TV automatically. * Scart cable must be connected with TV.
DISPLAY	To select disc,playback,picture & sound status.
OPEN/CLOSE	To open or close tray.
SETUP	To display SETUP menu.
DUBBING	To dub recorded program at HDD to DVD-RAM/-R during playback.
EXT LINK	To set EXT LINK mode to record automatically by detecting signal from external equipment.

10.2. Special modes at a glance

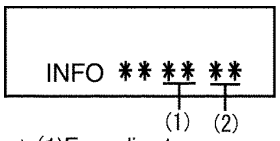
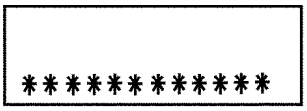
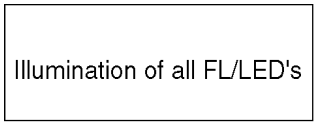
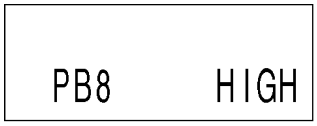
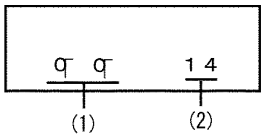
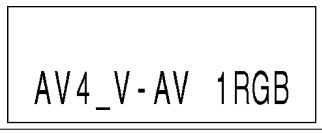
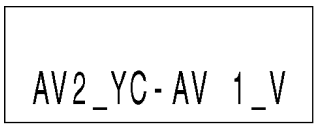
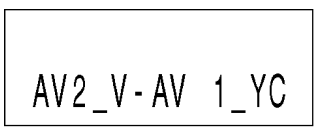
10.2.1. Service modes

Service mode setting: While the power is off, press TIME SLIP, STOP and OPEN / CLOSE simultaneously for five seconds.

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Clear item	Items 1-20 are cleared.	SERVICE MODE	[0] [0] while in service m
Error code display	FL display of the last error code held by timer	F00 FL display of the error code（U/H/F）	[0] [1] while in service m
ROM version display	Region code, main, timer and drive firmware versions are displayed on screen and FL tube.	REGION* MAIN ****** TIMER ***** DRIVE **** * Version display	[0] [2] while in service m
White picture output	White picture output from AV decoder White picture (Chroma: 100%) Switching enabled by subcommand “I/P switch”	Initialization mode (Interlace) WHIT I	[1] [1] while in service m
		Progressive/ Interlace switched. WHIT P	[1] [4] while in white pict mode *I ← → P Toggle switch

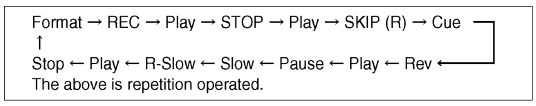
Item		FL display	Key operation
Mode name	Description		Remote controller ke
Magenta picture output	Magenta picture output from AV decoder Magenta picture (Chroma: 100%) Switching enabled by subcommand “I/P switch”	Initialization mode (Interlace) 	[1] [2] while in service m
		Progressive/ Interlace switched 	[1] [4] while in Magenta pi mode *I ← → P Toggle switch
RTSC return XP (A& V)	Disc recording of L1 input Encoded and decoded for external output without playback. REC mode is XP.	Initialization mode (EE2/ Interlace/ XP/ Audio 48kHz) 	[1] [3] while in service m
		Progressive/ Interlace switched. 	[1] [4] while in RTSC retur mode *I ← → P Toggle switch
		Audio 44.1kHz/ 48kHz switch 	[2] [4] while in RTSC retur mode *48k ← → 44.1k Toggle swi
I/P switching	“Interlace” and “Progressive” are switched. Initial setting is “Interlace”. (This command is effective when performing 14 and 15.)	Initialization mode Progressive 	[1] [4] while in service m *I ← → P Toggle switch
Audio Mute (XTMUTE)	Check whether mute is applied normally by the microcomputer timer.		[2] [1] while in service m

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Audio Mute (XDMUTE)	Check whether is mute applied normally by the Digital P.C.B. (GLUE IC).	MAIN MUTE	[2] [2] while in service m
Audio pattern output	The audio pattern stored in the internal memory is output (1kHz-18dB).	Initialization mode (Interlace) AUDIO 48	[2] [3] while in service m
		Audio 44.1kHz / 48kHz switched. AUDIO 44	[2] [4] while in white pict mode *48k ← → 44k Toggle swit
Laser use time display	To check laser use time of drive	LASER ✱✱✱✱ ✱ (✱)displays the time (in hours). ✱ The last working time is incremented in both the DVD/CD Play and Record modes.	[4] [1] while in service m
RAM drive last error	RAM drive error code display. *For details about the drive error code, refer to the manual for the specific RAM drive.	✱✱ ✱✱✱✱ ✱✱ ✱✱ ✱✱ (1) (2) (3) (4) (5) ✱ (1)Sense key ✱ (2)Additional sense code ✱ (3)Host detail ✱ (4)Access detail ✱ (5)Mecha detail ✱ This information is saved to EEPROM on the RAM drive.	[4] [2] while in service m
Laser error count	The number of times that a laser error has occured due to a defective disc or defective drive is counted and displayed.	LASERERR ✱ ✱ (✱)is the number of times a laser error occured. ✱ This information is saved to EEPROM on the RAM drive.	[4] [3] while in service m

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Factors which cause drive error	The disc condition is displayed when an error occures.	 ∗ (1)Error disc type. ∗ (2)Status of error disc. ∗ The details can be checked using the separate table. ∗ This information is saved to EEPROM on the RAM drive.	[4] [4] while in service m
Disc manufacture ID	Display the manufacture's ID for a disc on which a drive error has occured.	 The display example can be checked using the separate table.	[4] [5] while in service m
Illumination of all FL /LEDs	All FL and LEDs are lit up.		[5] [1] while in service m
PB8 HIGH signal output	8pin of RGB output is high.		[5] [2] while in service mod
PB8 MIDDLE signal output	8pin of RGB output is middle.		[5] [3] while in service mod
Front connection inspection	Press all the main unit's buttons and check the connection with the Main P.C.B..	 ∗(1)Each time a key is pressed, the grid on the FL display will grow larger. ∗(2)Total number of main unit buttons.	[5] [4] while in service m
AV4-AV1 (RGB) SELECT	Video signal at AV4 should output with AV1.		[8] [0] while in service mod
AV2-AV1 (VIDEO)	Video signal at AV2 should output with AV1.		[8] [1] while in service mod
AV2-AV1 (Y/C)	Video signal at AV2 should output with AV1.		[8] [2] while in service mod

Item		FL display	Key operation
Mode name	Description		Remote controller ke
AV2-AV1 (RGB)	Video signal at AV2 should output with AV1.	AV2RGB-AV 1_V	[8] [3] while in service mod
Tray OPEN/CLOSE	The RAM drive tray is opened and closed repeatedly.	CYCLE ✱✱✱✱ ✱FL display of the CYCLE count out.	[9] [1] while in service m * AC power should be turn to release this operatic
Error code initialization	Initialization of the last error code held by timer (Write in F00)	ERROR INIT	[9] [8] while in service m
Main unit initialization	All parameters (including timer) are initiaized to the factory setting.	FACT INIT	[9] [9] while in service m
PC card WRITE check	Check WRITE function using the media and PC card.	When the WRITE check is OK. CARD SUCCESS * If the WRITE check is negative, the SUCCES display section will read : [ERROR]. * Note : The image saved to media is erased.	Insert PC card, and press [[1] keys in the service mod *Insert PC card while the p is off. *Check for [CARD] on the F display and contue the inspection.
PC card READ check	Check READ function using the media with image and PC card.	When the READ check is OK. JPEG TEST * The image saved to media is displayed. * If the READ check is negative, [NG] will be displayed after [TEST].	Insert PC card, and press [[2] keys in the service mod *Insert PC card while the p is off. *Check for [CARD] on the F display and contue the inspection.
Aging	See the * Aging Description below.	---	When the power is off, pr TIMEWARP + OPEN / CL and CH DOWN simultaneo for five seconds.

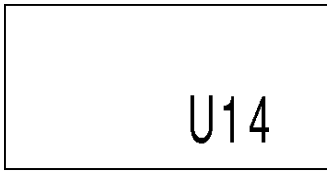
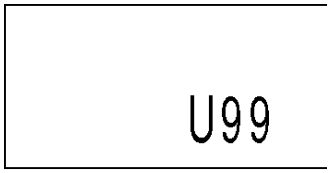
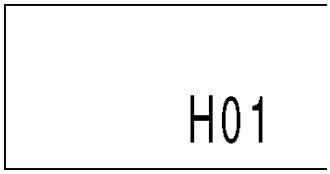
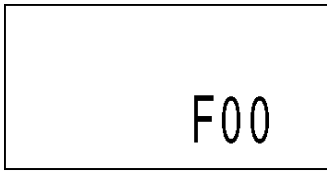
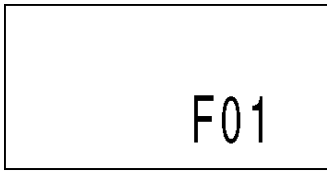
*** Aging Description**

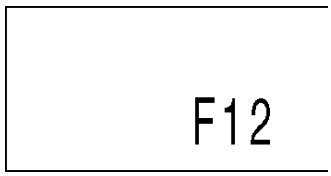


10.2.2. Other special modes

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Model	Since a drive region is not specified [0] on replacement drives, it is specified when the drive is replaced.	TEST AVI	When the power is off, pres SKIP(R), TIME SLIP and OF CLOSE simultaneously for seconds.
Rating password	The audiovisual level setting password is canceled.	---	Press SKIP(R) and (F) with openduring Power ON.
Audiovisual ID cancel	The audiovisual level setting password is canceled.	---	(Remote control) Set th audiovisual limit level to and set the ID number to “
Shop display LOCK cancel	Ejection of the disc is prohibited.	Press OPEN/CLOSE button, FL display will be shown below. LOCK	(Main unit) Open the tray, a press SKIP(R) and SKIP(L) simultaneously for five sec Press the OPEN/CLOSE bu and make sure that [LOCK] displayed. Then, with the p on,press STOP and POWEI simultaneously for five sec
Forced disc eject	Removing a disc that cannnot be ejected.	---	When the power is off, pres STOP and CH_UP simultaneously for five sec
ATP re-boot	The ATP is set again.	---	In STOP(EE) mode, press S and TIME SLIP simultaneou for five seconds.
Child lock release	Release “Child Lock”.	X-HOLD	Press ENTER and RETURN remote controller simultaneously until [X-HO displayed.
NTSC/PAL system select	To select NTSC or PAL system.	---	Press STOP and OPEN/CL(simultaneously for five sec on the EE mode (power is (

10.2.3. List of the U/H/F Error Displays

Display	Diagnosis	Description	FL display
U12	Remote control mode error	Display appears when main unit and remote controller modes are not matched.	
U14	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 71Åé. Main unit is powered off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedforthe first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	 Displayed from the time o detection and while key e are disabled after power-o minutes).
U99	Hang-up	Displayed when microprocessor has hang-up.	 Remains displayed.
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on.	 Remains displayed.
F00	No error information	Initial setting for error code in memory (Initialization is possible with error code initialization and main unit initialization.)	 Remains displayed.
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	 Remains displayed.

Display	Diagnosis	Description	FL display
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory.	 Remains displayed.
UNSUPPORT	Unsupported disc error	*A disc an unsupported format was played, even though the drive starts normally. *The data format is not supported even though the media type is supported.	
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	
HARD ERR	Drive error	The drive detected a hard error.	
RECOVER	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, thereis the possibility that defective Digital P.C.B. / RAM drive.	

10.3. The information table of an error generating disk

10.3.1. Error generating disk type

(hexadecimal)	Disk type
00	DVD-ROM/Video
10	Audio-CD
20	2.6GB DVD-RAM
30	4.7GB DVD-RAM
40	DVD-R

10.3.2. Error generating disk state

(hexadecimal)	Contets			
	Sizes of disk	Cartridge disk state	Cartridge state	Disk distinction state
00	12cm	Have not opened yet.	With cartridge	OK
10	12cm	Have not opened yet.	With cartridge	NG
20	12cm	Have not opened yet.	Nakedness	OK
30	12cm	Have not opened yet.	Nakedness	NG
40	12cm	Have been opened.	With cartridge	OK
50	8cm	Have not opened yet.	Nakedness	OK
60	12cm	Have been opened.	Nakedness	OK
70	12cm	Have been opened.	Nakedness	NG
80	8cm	Have not opened yet.	With cartridge	OK
90	8cm	Have not opened yet.	With cartridge	NG
A0	12cm	Have been opened.	With cartridge	NG
B0	8cm	Have not opened yet.	Nakedness	NG
C0	8cm	Have been opened.	With cartridge	OK
D0	8cm	Have been opened.	With cartridge	NG
E0	8cm	Have been opened.	Nakedness	OK
F0	8cm	Have been opened.	Nakedness	NG

10.3.3. Disk production maker ID

No	FL displays	Disk type / Maker name
1	MEI*****	DVD-R by Panasonic
2	PVC*****	DVD-R by Pioneer
3	MCC*****	DVD-R by MITSUBISHI
4	TDK*****	DVD-R by TDK
5	MXL*****	DVD-R by Maxell
6	MCI*****	DVD-R by MITUI CHEMICALS
7	MATSUSHITA	DVD-RAM by Panasonic
8	MXL*	DVD-RAM by Maxell

*** Since a display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.**

Please make it reference as an example of a display.

11. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	
	ASI	AUDIO RF
	ASO	SERVO AMP INVERTED INPUT
	ASYNC	SERVO AMPOUTPUT
		AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK
C	CAV	CONSTANT ANGULAR
	CBDO	VELOCITY
	CD	CAP. BLACK DROP OUT
	CDSCK	COMPACT DISC
	CDSRDATA	CD SERIAL DATA CLOCK
		CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCKSELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIPSELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT

INITIAL/LOGO		ABBREVIATIONS
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	DIGITAL MUTE CONTROL
	DO	DROP OUT
	DOUT0~UP	DATAOUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/ 40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED INPUT
	FEO	FOCUS ERROR AMP OUTPUT
	FG	FREQUENCY GENERATOR
	FSC	FREQUENCY SUB CARRIER
	FSCK	FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE

INITIAL/LOGO		ABBREVIATIONS
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	INTERPOLATION FLAG
	IREF	I (CURRENT) REFERENCE
	ISEL	INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORYSERIAL COMMAND LOAD
	MPEG	MOVING PICTURE EXPERTS GROUP
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK / PLLOK	CHANNEL PLL CLOCK PLL LOCK
	PWMCTL	PWM OUTPUT CONTROL
	PWMDA	PULSE WAVE MOTOR DRIVEA
	PWMOA, B	PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
		RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECTCLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUBCODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATAVALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA

	SYSCLK	SYSTEM CLOCK

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD	DRAIN POWER SUPPLY VOLTAGE
	VFB	VIDEO FEED BACK
	VREF	VOLTAGE REFERENCE
	VSS	SOURCE POWER SUPPLYVOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE X VERTICAL SYNC OUTPUT

12. Voltage and Waveform Chart

Note)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

12.1. Main Power Supply P.C.B.

12.2. Main P.C.B.

12.3. Scart P.C.B.

12.4. Nicam/Decoder P.C.B.

12.5. Front (L) P.C.B.

12.6. Front (R) P.C.B.

12.7. PP9701, PP9702, PP9703 Connector

12.8. PP9701, PP9702 Waveform

13. Block Diagram

13.1. Power Supply Block Diagram

13.1.1. Integrated Circuit Power Supply Chart (PSC 1 - PSC 23)

13.2. Analog Video Block Diagram

13.3. Analog Audio Block Diagram

13.4. Timer Block Diagram

13.5. Digital Section Block Diagram

13.5.1. Digital Video Section Block Diagram

13.5.2. Digital Audio Section Block Diagram

13.5.3. Digital Block IC Pin Terminal Chart (TC 1 - TC 31)

14. Schematic Diagram

14.1. Interconnection Schematic Diagram

14.2. Main Power Supply Schematic Diagram (Main Power Supply P.C.B.)

14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)

14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)

14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)

14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/6)

14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/6)

14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/6)

14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/6)

14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/6)

14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/6)

14.14. 1394 DV Schematic Diagram (DV) (Digital P.C.B.) & DV JACK Schematic Diagram

14.15. Real Time Control (RTSC) Schematic Diagram (DS) (Digital P.C.B. 8/8)

14.16. SD & PC Card Schematic Diagram

14.17. Scart Schematic Diagram

14.18. VIF Decoder Schematic Diagram

14.19. Nicam/Decoder Schematic Diagram

14.20. Front (L) Schematic Diagram

14.21. Front (R) Schematic Diagram

15. Print Circuit Board

15.1. Main Power Supply P.C.B.

15.2. Main P.C.B.

15.2.1. Main P.C.B. (Section 1/4)

15.2.2. Main P.C.B. (Section 2/4)

15.2.3. Main P.C.B. (Section 3/4)

15.2.4. Main P.C.B. (Section 4/4)

15.2.5. Main P.C.B. Address Information

15.3. Digital P.C.B.

15.3.1. Digital P.C.B. (Section 1/2)

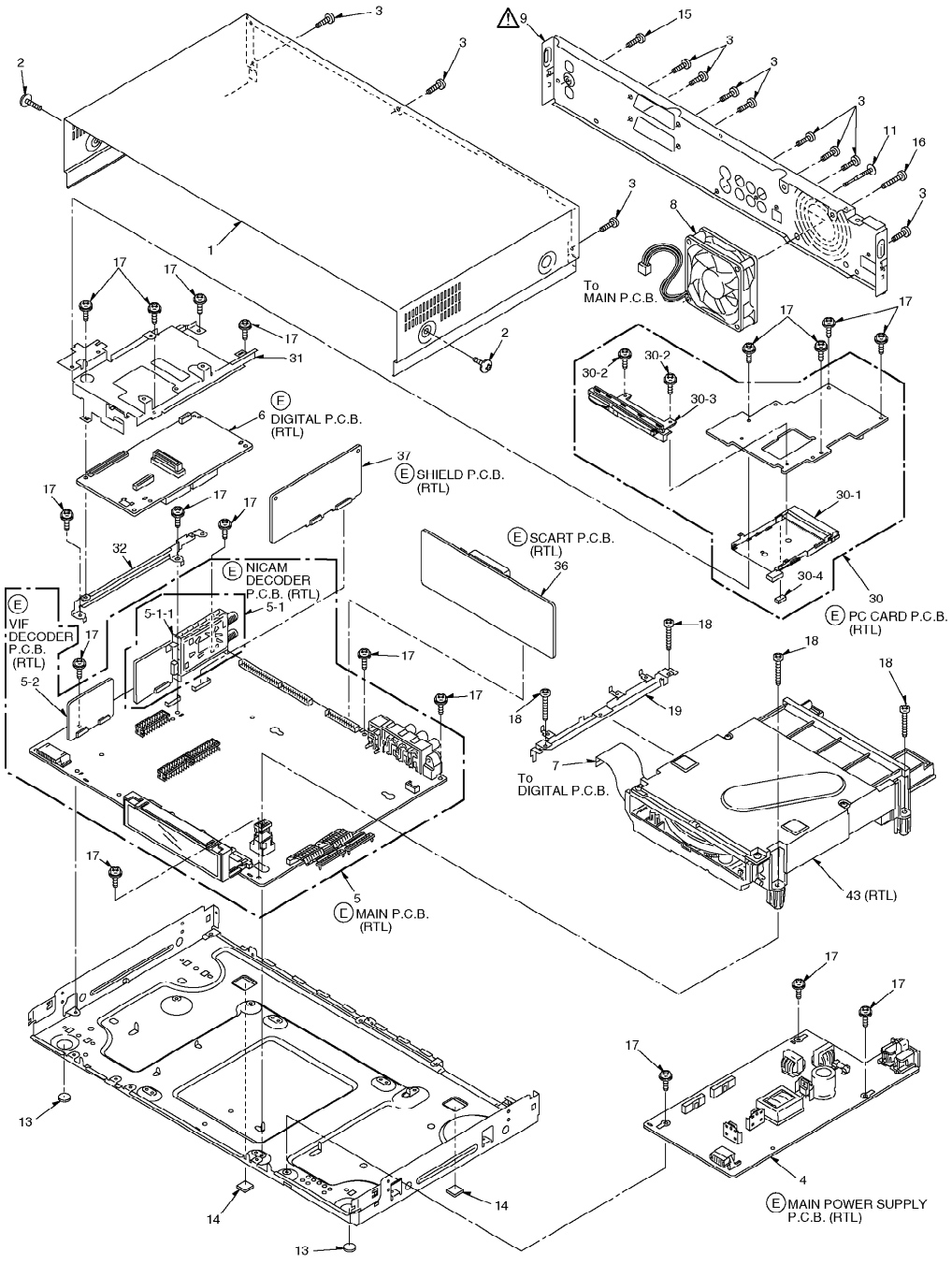
15.3.2. Digital P.C.B. (Section 2/2) & DV JACK P.C.B.

15.3.3. Digital P.C.B. Address Information

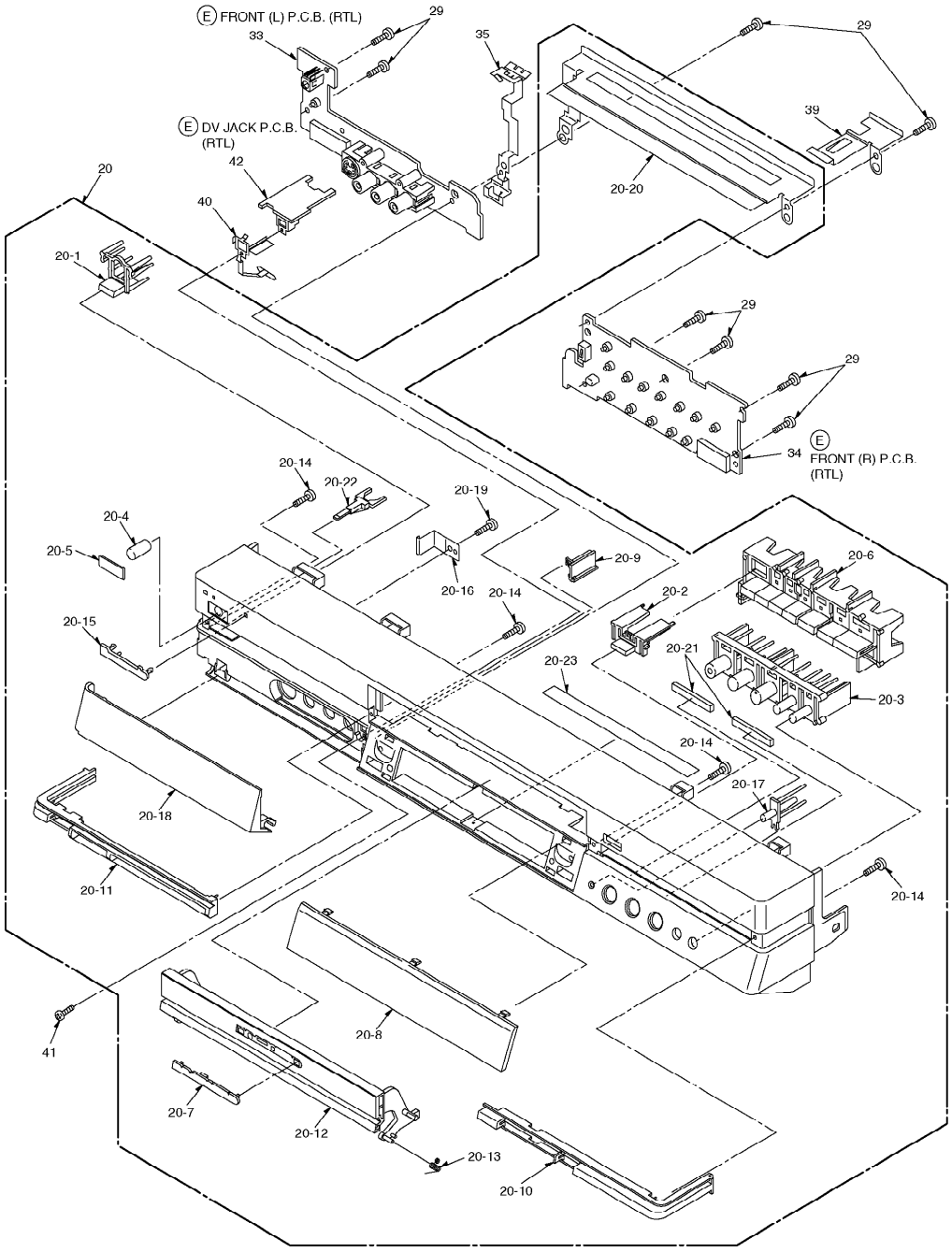
15.4. SD & PC Card P.C.B.

15.5. Scart P.C.B.

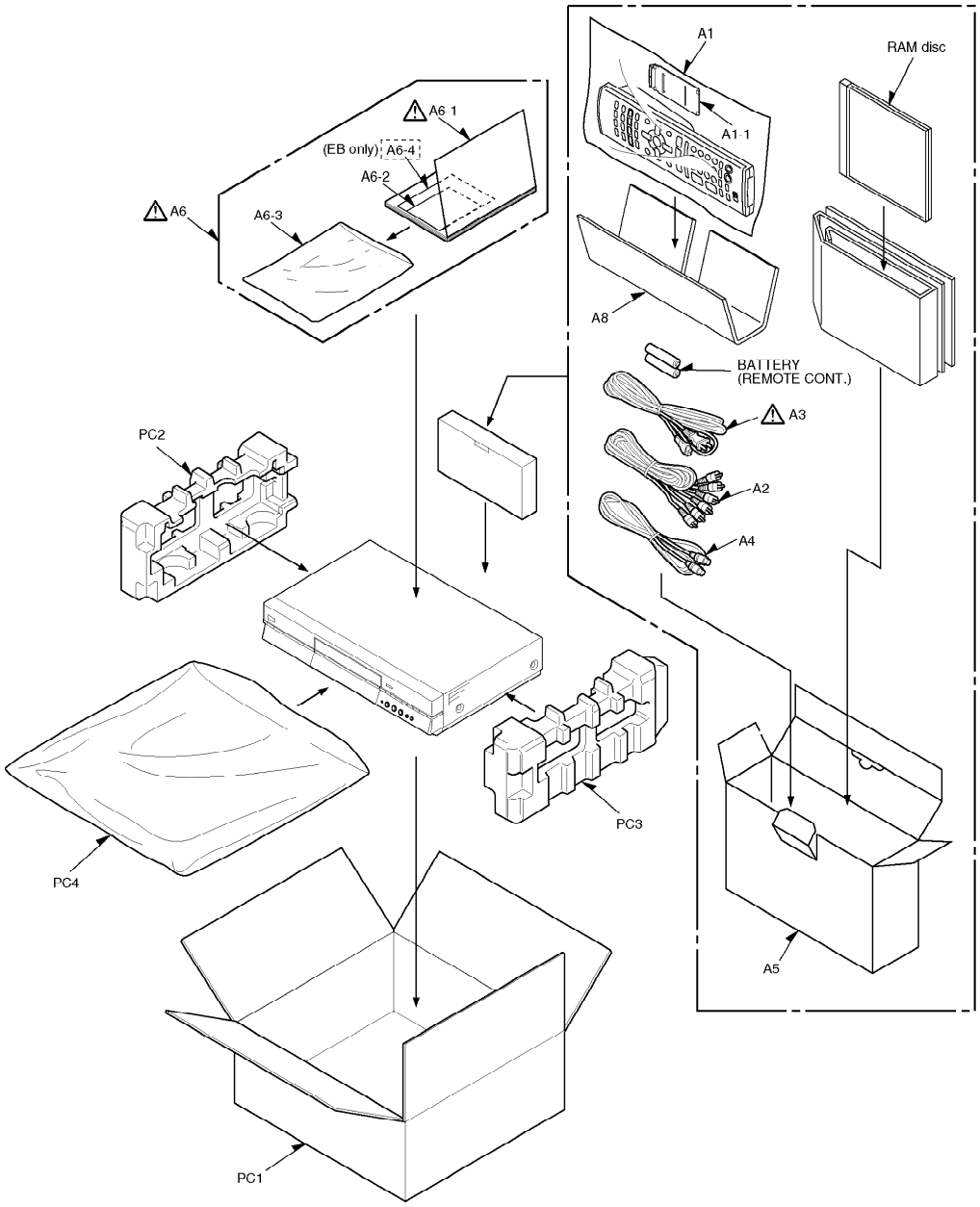
15.5.1. Scart P.C.B. (Section 1/2)
15.5.2. Scart P.C.B. (Section 2/2)
15.6. VIF Decoder P.C.B.
15.7. Nicam/Decoder P.C.B.
15.8. Front (L) P.C.B.
15.9. Front (R) P.C.B.
16. Exploded Views
16.1. Casing Parts & Mechanism Section 1


To MAIN P.C.B.
(F) DIGITAL P.C.B. (RTL)
(E) SHIELD P.C.B. (RTL)
(E) SCART P.C.B. (RTL)
(E) NICAM DECODER P.C.B. (RTL)
(E) VIF DECODER P.C.B. (RTL)
(E) PC CARD P.C.B. (RTL)
To DIGITAL P.C.B.
43 (RTL)
(E) MAIN P.C.B. (RTL)
(E) MAIN POWER SUPPLY P.C.B. (RTL)

16.2. Casing Parts & Mechanism Section 2



16.3. Packing & Accessories Section



17. Replacement Parts List

Notes:

***Important safety notice:**

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

***Warning: This product uses a laser diode. Refer to caution statements.**

***Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**

***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**

***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.**
***"<IA>"_"<IE>", marks in Remarks indicate languages of instruction manuals. [<IA>: English/ Spanish, <IB>: German/ Italian, <IC>:French/ Netherlands, <ID>: Swedish/ Danish, <IE>: English**
All parts are supplied by S.P.C..

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
~	01	CASING/ACCESSORY/PACKING		
1	RKM0485-S	TOP COVER	1	
2	SNE2129-4	SCREW	2	
3	VHD0690	SCREW	11	
4	ETXMM466E4G	POWER SUPPLY P.C.B.	1	(RTL)
5	REP3532C	MAIN P.C.B.	1	(RTL)(EG)
5	REP3532D	MAIN P.C.B.	1	(RTL)(EB)
5-1	VEP07A23Y	VIF DECODER P.C.B.	1	(RTL)(EG)
5-1	VEP07A23Z	VIF DECODER P.C.B.	1	(RTL)(EB)
5-1-1	VMP5897	VIF ANGLE	1	
5-2	VEP07A51A	NICOM DECODER P.C.B.	1	(RTL)
6	REP3584A	DIGITAL P.C.B.	1	(EG)
6	REP3584AB	DIGITAL P.C.B.	1	(EB)
7	VWJ1650	FFC(40P)	1	
8	L6FALCCE0004	FAN MOTOR	1	
9	RGR0337C-G	REAR PANEL	1	(EG) ⚠
9	RGR0337C-H	REAR PANEL	1	(EB) ⚠
11	RMR1529-K	RIVET	1	
13	RKA0143-K	LEG	2	
14	RKA0144-K	FOOT RUBBER	2	
15	XSN3+4FZ	SCREW	1	
16	XTN3+23JFZ	SCREW	1	
17	XTN3+7F-C	SCREW	18	
18	RHD30106	SCREW	4	
19	RMA1640A	DIGITAL ANGLE(R)	1	
20	RYP1200B-S	FRONT PANEL ASS'Y1	1	(EG)
20	RYP1200C-S	FRONT PANEL ASS'Y1	1	(EB)
20-1	RGU2185B-K	POWER BUTTON	1	
20-2	RGU2186-S	OPEN BUTTON	1	
20-3	RGU2188-S	OPERATION BUTTON	1	
20-4	RGQ0327-Q	IR WINDOW GUIDE	1	
20-5	RKW0724-S	IR WINDOW	1	
20-6	RGU2187B-K	CHANNEL BUTTON	1	
20-7	RGB0146-S	DVD RECORDING BADGE	1	
20-8	RGK1643-Q	FL ORNAMENT	1	
20-9	RMR1526-H	SHAFT HOLDER	1	
20-10	RGK1675-K	FRONT ORNAMENT(R)	1	
20-11	RGK1674A-K	FRONT ORNAMENT(L)	1	
20-12	RKF0668-S	TRAY DOOR	1	
20-13	VMB3410	BLINDER SPRING	1	
20-14	XTN2+6G	SCREW	4	
20-15	VGB0560	PANASONIC BADGE	1	
20-16	RMC0539	EARTH PLATE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
20-17	RGL0620-Q	LIGHTING PIECE	1	
20-18	RKF0666J-S	PANEL DOOR	1	(EG)
20-18	RKF0666K-S	PANEL DOOR	1	(EB)
20-19	XTBS26+8J	SCREW	1	
20-20	RMA1639	FRONT ANGLE	1	
20-21	RMX0252	DAMPER SHEET	2	
20-22	RGL0626-Q	POWER PIECE	1	
20-23	RMZ0693	SHEET	1	
29	XTBS26+10J	SCREW	8	
30	REP3540BA	PC CARD P.C.B.	1	(RTL)
30-1	VXA7527	PC CARD SLOT	1	
30-2	XYN2+F6	SCREW	2	
30-3	RYQ0445A-A	CARD HOLDER ASS'Y	1	
30-4	RMX0266	GASKET	1	
31	RMA1650	PC CARD ANGLE	1	
32	RMA1651	DIGITAL ANGLE(L)	1	
33	REP3528CB	FRONT(L)P.C.B.	1	(RTL)
34	REP3528AA	FRONT(R)P.C.B.	1	(RTL)
35	RMC0549	EARTH PLATE (A)	1	
36	REP3533A	SCART P.C.B.	1	(RTL)
37	REP3594A	SHIELD P.C.B.	1	(RTL)
39	RMC0570	EARTH PLATE	1	
40	RMC0550	DV EARTH	1	
41	XQN16+B4FN	SCREW	1	
42	REP3540AB	DV JACK P.C.B.	1	(RTL)
43	VXY1772-S	RAM DRIVE UNIT	1	(RTL)
A1	EUR7624KH0	REMOTE CONTROL ASS'Y	1	(EG)
A1	EUR7624KJ0	REMOTE CONTROL ASS'Y	1	(EB)
A1-1	UR76EC2403A	BATTERY COVER	1	
A2	RJA0053-3X	AC CORD	1	(EB) ⚠
A2	VJA0664	AC CORD	1	K2CR2DA00004 (EG) ⚠
A3	K2KA6CA00001	A/V CORD	1	
A4	VJA1089	RF COAXIAL CABLE	1	K1TWACC00001
A5	RPQF0238	ACCESSORY CASE	1	
A6	RQF5204	FAN BAG ASS'Y	1	(EG) ⚠
A6	RQF5206	FAN BAG ASS'Y	1	(EB) ⚠
A6-1	RQT7078-E	OPERATING INSTRUCTIONS	1	(EG)<IA> ⚠
A6-1	RQT7079-D	OPERATING INSTRUCTIONS	1	(EG)<IB> ⚠
A6-1	RQT7080-H	OPERATING INSTRUCTIONS	1	(EG)<IC> ⚠
A6-1	RQT7081-J	OPERATING INSTRUCTIONS	1	(EG)<ID> ⚠
A6-1	RQT7082-B	OPERATING INSTRUCTIONS	1	(EB)<IE> ⚠
A6-2	RQCA1073	DISC CAUTION SHEET	1	(EG)
A6-2	RQCA1004	DISC CAUTION SHEET	1	(EB)
A6-3	RPF0378	POLYETHYLENE BAG(F.B.)	1	
A6-4	RQCA1108	SET UP GUIDE	1	(EB)
A8	RPQ1594	PAD	1	
PC1	RPG6536	PACKING CASE	1	(EG)
PC1	RPG6537	PACKING CASE	1	(EB)
PC2	RPN1607A	CUSHION(L)	1	
PC3	RPN1607B	CUSHION(R)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
PC4	VPF0505	POLYETHYLENE BAG(UNIT)	1	
~	02	REP3594A		
PS3601	VJS3042F008W	CONNECTOR(8P)	1	K1KB08B00028
PS3602	VJS3042F012W	CONNECTOR(12P)	1	K1KB12B00030
~	03	ETXMM466E4G		
C001	KH101K	100P	1	⚠
C002	KH102M	1000P	1	⚠
C003,04	ECQU2A224ML	0.22	2	⚠
C005	KH101K	100P	1	⚠
C006-08	KH102M	1000P	3	⚠
C009	KMM2W470JZ	450V 47	1	
C010-12	MBB105K1	16V 1	3	
C013	MBC102J5	50V 1000P	1	
C014	MBC681J5	50V 680P	1	
C016	CD102M	1000P	1	⚠
C017	ECJ2VB1H103K	50V 0.01	1	
C018	MBB105K1	16V 1	1	
C019	MBB104K5	50V 0.1	1	
C020	RR3AD102K	1KV 1000P	1	
C022	KY1V330Z	35V 33	1	
C023	DE2SL680J	2KV 68P	1	
C102,03	MBC102J5	50V 1000P	2	
C104	KMG1H2R2	50V 2.2	1	
C106	ECA1AHG102	10V 1000	1	
C107	KY1A681L	10V 680	1	
C109	ECA1EHG102	25V 1000	1	
C110	ECA1CHG471B	16V 470	1	
C112	KMG1C471	16V 470	1	
C114,15	MBB105K1	16V 1	2	
C116	ECQB1H102JF	50V 1000P	1	
C118	MBB104K2	25V 0.1	1	
C119	ECQB1H683JF	50V 0.068	1	
C120	MBB104K2	25V 0.1	1	
C121	KY1A471	10V 470	1	
C122	KMG1E470	25V 47	1	
C123	KY0J152	6.3V 1500	1	
C124	TBB224K2	25V 0.22	1	
C125	KY1A221	10V 220	1	
C126	KY1A471	10V 470	1	
C127	KMG1V470	35V 47	1	
C129	MBC101K2D	200V 100P	1	
C133	KY1A471	10V 470	1	
C134	MBB224K2	25V 0.22	1	
C301	MBC102J5	50V 1000P	1	
C302	MBB104K2	25V 0.1	1	
C304	MBB333K5	50V 0.033	1	
C306	MBB105K1	16V 1	1	
C307	MBB104K2	25V 0.1	1	
C308	MBB105K1	16V 1	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C309-11	MBB104K2	25V 0.1	3	
C312-15	ECJ2VB1H333K	50V 0.033	4	
C316	TBB224K2	25V 0.22	1	
D001	S1WBA60S	DIODE	1	B0KA00000014 ⚠
D002	1SS355	DIODE	1	B0ACCK000005
D004	1SS355	DIODE	1	B0ACCK000005
D006	M1FL20U	DIODE	1	
D007	AP01C	DIODE	1	B0HADV000010
D008	ERA38-05	DIODE	1	
D101	RL2ZLF	DIODE	1	B0HANM000021
D103	YG805C06R	DIODE	1	
D104	RK46	DIODE	1	B0JAPG000009
D105	RK36	DIODE	1	
D106	RK49	DIODE	1	B0JAPK000005
D107,08	MA165TA5	DIODE	2	MA2C16500E
D109	RK49	DIODE	1	B0JAPK000005
D112	ERA15-04	DIODE	1	B0EAKP000016
D113,14	1SS355	DIODE	2	B0ACCK000005
D115	GPP20J	DIODE	1	
D116	RK39	DIODE	1	
D119	GPP20J	DIODE	1	
D301-05	1SS355	DIODE	5	B0ACCK000005
F001	19181-2A	FUSE	1	⚠
F101	19396-2.5A	FUSE	1	⚠
IC001	FA13844N	IC	1	
IC102	AN1431T	IC	1	
IC301,02	NJM2904M	IC	2	C0ABBA000021
IP101	ICPN15	IC PROTECTOR	1	⚠
IP102	ICPN25	IC PROTECTOR	1	⚠
L001	ELF15N005A	FILTER	1	⚠
L002	ELF15N003A	FILTER	1	⚠
L003	V35VB680K	FILTER	1	
L004,05	EXCELDR35	FILTER	2	
L101	EXCELSA24	FILTER	1	
L103,04	EXCELSA24	FILTER	2	
L105	EXCELDR35	FILTER	1	
L108	LHLZ1R0M	FILTER	1	
L110	LH8TB100K	FILTER	1	
L111	EXCELDR35	FILTER	1	
L112	LHLZ4R7M	FILTER	1	
L113	EXCELDR35	FILTER	1	
L114	LHLZ2R2M	FILTER	1	
L115	EXCELSA35	FILTER	1	
L118,19	EXCELSA24	FILTER	2	
P001	M2023	AC INLET	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
PC001	0N3171	PHOTO COUPLER	1	CNC1S171 ⚠
PS102	TWGP15XA1	CONNECTOR	1	
PS103	127602110K	CONNECTOR	1	
PS105	TWGP19XA1	CONNECTOR	1	
Q001,02	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q003	2SK2718	TRANSISTOR	1	⚠
Q004	UN2213	TRANSISTOR	1	UNR2213
Q101	2SB709A	TRANSISTOR	1	2SB0709A
Q102	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q103	UPA1717G	TRANSISTOR	1	
Q104	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q105	UN221L	TRANSISTOR	1	UNR221L
Q106	UN2111	TRANSISTOR	1	UNR2111
Q107	UPA1720G	TRANSISTOR	1	
Q108	2SB766A	TRANSISTOR	1	2SB0766A
Q109	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q301	2SK3366	TRANSISTOR	1	
Q302	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q303	2SB710A	TRANSISTOR	1	2SB0710A
Q304	2SD2000	TRANSISTOR	1	
Q305	2SB1218A	TRANSISTOR	1	
Q306	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q307	2SD1328-R	TRANSISTOR	1	2SD13280R
Q308	2SB1218A	TRANSISTOR	1	
Q309	2SB709A	TRANSISTOR	1	2SB0709A
R001	ERDS1FJ223	0.5W 22K	1	
R002	ERDS1FJ105	0.5W 1M	1	
R003	ERDS1FJ223	0.5W 22K	1	
R005	ERDS1FJ223	0.5W 22K	1	
R006	CR10J473	0.1W 47K	1	
R007	CR10F1502	0.1W 15K	1	
R008,09	CR10J473	0.1W 47K	2	
R010	CR10J104	0.1W 100K	1	
R011	CR10F6810	0.1W 681	1	
R012	ER0S2CHF1621	0.25W 1.62K	1	
R013	CR10J102	0.1W 1K	1	
R015	CR10J333	0.1W 33K	1	
R016,17	CR10J101	0.1W 100	2	
R020	CR10J101	0.1W 100	1	
R021	CR10J561	0.1W 560	1	
R022	CR10J222	0.1W 2.2K	1	
R023	CR10J822	0.1W 8.2K	1	
R025,26	ERJ12YJ4R7	0.5W 4.7	2	
R027,28	ERJ12YJ224	0.5W 220K	2	
R029,30	CR100R00	0	2	
R032	ERG1SJ102	1W 1K	1	
R102	CR10J100	0.1W 10	1	
R104-06	CR10J100	0.1W 10	3	
R112	CR10J152	0.1W 1.5K	1	
R113	CR10J471	0.1W 470	1	
R115-19	CR10JR16	0.1W 0.16	5	

R119-10	CR100R10	0.1W 0.1%	0	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R120	CR10J6R8	0.1W 6.8	1	
R121	CR10J100	0.1W 10	1	
R122	ER0S2TKF4530	0.25W 453	1	
R123	ERJ6GEYG821	0.1W 820	1	
R124	CR10J102	0.1W 1K	1	
R125	CR10J101	0.1W 100	1	
R126	CR10J222	0.1W 2.2K	1	
R127	CR10J101	0.1W 100	1	
R128	CR10J561	0.1W 560	1	
R129	CR10J101	0.1W 100	1	
R130	ERDS2FJ121	0.25W 120	1	
R131	CR10J102	0.1W 1K	1	
R132	CR10J471	0.1W 470	1	
R133,34	CR10J682	0.1W 6.8K	2	
R135	ER0S2TKF1430	0.25W 143	1	
R136	CR10J822	0.1W 8.2K	1	
R137	CR10J102	0.1W 1K	1	
R138	CR10J822	0.1W 8.2K	1	
R139	CR10J103	0.1W 10K	1	
R140	ERDS1FJ152	0.5W 1.5K	1	
R141,42	CR10J152	0.1W 1.5K	2	
R143,44	CR10J272	0.1W 2.7K	2	
R148-52	CR10JR16	0.1W 0.16	5	
R159	ERDS2FJ470	0.25W 47	1	
R162,63	CR10J100	0.1W 10	2	
R169	CR10J121	0.1W 120	1	
R178	CR10J272	0.1W 2.7K	1	
R301	CR10J101	0.1W 100	1	
R302,03	CR10J103	0.1W 10K	2	
R304	CR10J472	0.1W 4.7K	1	
R305	CR10J102	0.1W 1K	1	
R306	CR10J472	0.1W 4.7K	1	
R307	CR10J683	0.1W 68K	1	
R308	CR10J472	0.1W 4.7K	1	
R309	CR10J822	0.1W 8.2K	1	
R310	CR10J752	0.1W 7.5K	1	
R311	CR10J103	0.1W 10K	1	
R312	CR10J102	0.1W 1K	1	
R313	ERDS1FJ271	0.5W 270	1	
R314	CR10J472	0.1W 4.7K	1	
R315	CR10J822	0.1W 8.2K	1	
R316,17	CR10J103	0.1W 10K	2	
R318	CR10J223	0.1W 22K	1	
R319	CR10F2210	0.1W 221	1	
R320	CR10J223	0.1W 22K	1	
R321	CR10F2210	0.1W 221	1	
R322	CR10F1002	0.1W 10K	1	
R323	CR10F3321	0.1W 3.32K	1	
R324	CR10J103	0.1W 10K	1	
R325	CR10F1002	0.1W 10K	1	
R326	CR10F3321	0.1W 3.32K	1	
R327	CR10J103	0.1W 10K	1	
R328,29	CR10J473	0.1W 47K	2	
R330	CR10F6981	0.1W 6.98K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R331	CR10F4642	0.1W 46.4K	1	
R332	CR10F5901	0.1W 5.9K	1	
R333	CR10F4642	0.1W 46.4K	1	
R334	ERJ6ENF5231	0.1W 5.23K	1	
R335	CR10F4752	0.1W 47.5K	1	
R336	ERJ6ENF5231	0.1W 5.23K	1	
R337	CR10F4752	0.1W 47.5K	1	
R338,39	ERJ6ENF1622V	0.1W 16.2K	2	
R340,41	CR10F3320	0.1W 332	2	
R342	ERJ6GEYG271	0.1W 270	1	
R343	CR10J102	0.1W 1K	1	
R344,45	CR10J103	0.1W 10K	2	
T001	ETB28BF1L6AD	TRANSFORMER	1	⚠
TH001	NC21F104J	THERMISTOR	1	
VR102	EVMEASA01B52	V.R.	1	
Z002	ERZVGAD471	VARISTOR	1	⚠
ZD001	RD120EB	DIODE	1	
ZD002	MA8270	DIODE	1	
ZD101	MA8039	DIODE	1	
ZD102	MA8027	DIODE	1	
ZD103	MA4075N	DIODE	1	
ZD104	MA8051	DIODE	1	
ZD301	MA8051	DIODE	1	
ZD302,03	MAZ8051	DIODE	2	
~	05	REP3532C/REP3532D		
C1502	F2A1E221A210	25V 220U	1	
C1503,04	F2A1A471A211	10V 470U	2	
C1505,06	F2A0J471A256	6.3V 470U	2	
C1508,09	F2A0J470A012	6.3V 47U	2	
C1512	F2A1E4700048	25V 47U	1	
C1514	F2A0J470A012	6.3V 47U	1	
C1518	F2A1E4700048	25V 47U	1	
C1528	ECJ1VB1C104K	16V 0.1U	1	
C1530	F2A1E4700048	25V 47U	1	
C1531,32	ECJ1VB1C104K	16V 0.1U	2	
C3001	ECJ1VB1H103K	50V 0.01U	1	
C3005	ECJ1VB1H103K	50V 0.01U	1	
C3006	ECEA0JKS101	6.3V 100U	1	
C3007-14	ECJ1VB1H103K	50V 0.01U	8	
C3016-19	ECJ1VB1H103K	50V 0.01U	4	
C3020	ECEA0JKS101	6.3V 100U	1	
C3021-24	ECJ1VB1H103K	50V 0.01U	4	
C3025	ECJ1VB1C104K	16V 0.1U	1	
C3026	ECJ1VB1H103K	50V 0.01U	1	
C3027	ECJ1VB1C104K	16V 0.1U	1	
C3028	ECJ1VB1H103K	50V 0.01U	1	
C3029	ECEA0JKS470	6.3V 47U	1	

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3030,31	ECEA0JKN470	6.3V 47U	2	
C3032	ECJ1VC1H560J	50V 56P	1	
C3033	ECJ1VB1C104K	16V 0.1U	1	
C3034	ECEA1HSN010	50V 1U	1	
C3035-37	ECJ1VB1H103K	50V 0.01U	3	
C3038	ECEA1AKS221	10V 220U	1	
C3039	ECJ1VB1H103K	50V 0.01U	1	
C3040	ECEA0JKS101	6.3V 100U	1	
C3041	ECJ1VB1C104K	16V 0.1U	1	
C3042-44	ECEA0JKN470	6.3V 47U	3	
C3045	ECA0JM102	6.3V 1000U	1	
C3046	ECEA0JKS101	6.3V 100U	1	
C3047	ECA0JM102	6.3V 1000U	1	
C3048	ECEA0JKS101	6.3V 100U	1	
C3049,50	ECJ1VB1C104K	16V 0.1U	2	
C3051	ECJ1VC1H560J	50V 56P	1	
C3052	ECJ1VB1C104K	16V 0.1U	1	
C3053	ECEA0JKN470	6.3V 47U	1	
C3054	ECJ1VB1C104K	16V 0.1U	1	
C3056	ECUX1H471JCV	50V 470P	1	ECJ1VC1H471J
C3058	ECUX1H471JCV	50V 470P	1	ECJ1VC1H471J
C3059	ECJ1VB1C104K	16V 0.1U	1	
C3060,61	ECJ1VC1H470J	50V 47P	2	
C3064-67	ECJ1VB1H103K	50V 0.01U	4	
C3068	ECJ1VC1H150J	50V 15P	1	
C3069	ECJ1XC1H180J	50V 18P	1	ECJ1VC1H180J
C4001,02	F2A1H4R7A236	50V 4.7U	2	
C4003,04	ECJ1VB1H103K	50V 0.01U	2	
C4005-07	F2A1H1R0A236	50V 1U	3	
C4008	F2A1C221A019	16V 220U	1	
C4010	F2A1H1R0A236	50V 1U	1	
C4011	F2A1H100A236	50V 10U	1	
C4012	ECJ2VB1E104K	25V 0.1U	1	
C4013	F2A1H1R0A236	50V 1U	1	
C4014	F2A1H100A236	50V 10U	1	
C4015	F2A1H1R0A236	50V 1U	1	
C4017	F2A1H100A236	50V 10U	1	
C4018	F2A1H4R7A236	50V 4.7U	1	
C4019	F2A1C100A019	16V 10U	1	
C4020	ECJ2VB1E104K	25V 0.1U	1	
C4021	F2A1C100A019	16V 10U	1	
C4022	ECJ1VB1C104K	16V 0.1U	1	
C4023	F2A1H1R0A236	50V 1U	1	
C4024	F2A1C471A236	16V 470U	1	
C4025	F2A1H1R0A236	50V 1U	1	
C4026	ECJ1VF1C104Z	16V 0.1U	1	
C4027	F2A1H1R0A236	50V 1U	1	
C4028	ECJ1VB1H103K	50V 0.01U	1	
C4029	F2A1C102A236	16V 1000U	1	
C4030	ECJ1VF1C104Z	16V 0.1U	1	
C4031	F2A1H1R0A236	50V 1U	1	
C4033,34	F2A1C4700011	16V 47U	2	
C4052	ECJ1VF1C104Z	16V 0.1U	1	
C4053	ECJ1VB1C104K	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4054	F2A0J470A179	6.3V 47U	1	
C4055	ECJ1VF1C104Z	16V 0.1U	1	
C4056	F2A0J471A247	6.3V 470U	1	
C4057	ECUV1H680JCG	50V 68P	1	ECJ2VC1H680J
C4059	ECJ1VF1C104Z	16V 0.1U	1	
C4060	ECUV1H680JCG	50V 68P	1	ECJ2VC1H680J
C4061	ECJ1VF1C104Z	16V 0.1U	1	
C4062	ECA1AM221	10V 220U	1	
C4063,64	F2A1C4700011	16V 47U	2	
C4065	ECJ1VF1C104Z	16V 0.1U	1	
C4067	F2A0J470A179	6.3V 47U	1	
C4069	ECJ1VF1C104Z	16V 0.1U	1	
C4070	ECA1AM221	10V 220U	1	
C4072	ECA1AM221	10V 220U	1	
C4074,75	ECJ1VF1C104Z	16V 0.1U	2	
C4076	F2A1C471A236	16V 470U	1	
C4077	ECJ1VF1C104Z	16V 0.1U	1	
C4082,83	ECUV1H561JCX	50V 560P	2	ECJ2VC1H561J
C4091	ECJ1VF1C104Z	16V 0.1U	1	
C4092	F2A1C221A019	16V 220U	1	
C7401	F2A1C471A236	16V 470U	1	
C7402	ECJ1VB1H103K	50V 0.01U	1	
C7403,04	ECEA0JKS470	6.3V 47U	2	
C7405,06	ECJ1VB1C104K	16V 0.1U	2	
C7407	ECJ1VB1H103K	50V 0.01U	1	
C7408	ECJ1VB1C104K	16V 0.1U	1	
C7409,10	ECJ1VB1H103K	50V 0.01U	2	
C7413	ECEA0JKS470	6.3V 47U	1	
C7414	ECEA1HKS010	50V 1U	1	
C7415-17	ECEA0JKS470	6.3V 47U	3	
C7418,19	ECJ1VC1H330J	50V 33P	2	
C7420	ECJ1VB1C104K	16V 0.1U	1	
C7421,22	ECJ1VB1H103K	50V 0.01U	2	
C7423	ERJ3GEY0R00V	1/16W 0	1	(EG)
C7424	ECEA0JKS470	6.3V 47U	1	
C7426	ECJ1VB1C104K	16V 0.1U	1	
C7427	ECJ1VB1H222K	50V 2200P	1	
C7428	ECJ2VB1H103K	50V 0.01U	1	
C7429	ECJ1VB1C104K	16V 0.1U	1	(EG)
C7429	ECJ1VB1H332K	50V 3300P	1	(EB)
C7430-33	ECEA0JKS470	6.3V 47U	4	
C7439	ECJ1VB1C104K	16V 0.1U	1	
C7440	ECEA0JKS470	6.3V 47U	1	
C7441	ECJ1VB1C104K	16V 0.1U	1	
C7501-08	ECJ1VC1H151J	50V 150P	8	
C7509	ECEA0JKS470	6.3V 47U	1	
C7512	ECJ1VF1A105Z	10V 1U	1	
C7513	ECJ1VB1C104K	16V 0.1U	1	
C7515	ECJ1VF1A105Z	10V 1U	1	
C7516	ECJ1VC1H101J	50V 100P	1	
C7517	ECEA1VKA220B	35V 22U	1	
C7518	ECJ1VF1H104Z	50V 0.1U	1	
C7521	F2A1C221A019	16V 220U	1	
C7522	ECJ1VF1H104Z	50V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7523	ECQB1H473JF3	50V 0.047U	1	
C7524	ECJ1VB1H103K	50V 0.01U	1	
C7525	F2A0J221A256	6.3V 220U	1	
C7526	VCEA1VCB100	35V 10U	1	F2A1V1000013
C7527	ECQB1H223KF3	50V 0.022U	1	
C7528	F2A1H100A218	50V 10U	1	
C7529	F2A1V220A174	35V 22U	1	
C7532	ECJ1VF1C104Z	16V 0.1U	1	
C7533	ECJ1VC1H101J	50V 100P	1	
C7535	ECJ1VB1C104K	16V 0.1U	1	
C7536	ECEA0JKS101	6.3V 100U	1	
C7537	ECJ1VF1C104Z	16V 0.1U	1	
C7538	ECJ1VB1C104K	16V 0.1U	1	
C7539	ECUV1H200JCV	50V 20P	1	ECJ1VC1H200J
C7540	ECJ1VC1H151J	50V 150P	1	
C7541	ECJ1VC1H101J	50V 100P	1	
C7542	ECJ1VB1C104K	16V 0.1U	1	
C7543	ECEA0JKS470	6.3V 47U	1	
C7544,45	ECJ1VF1C104Z	16V 0.1U	2	
C7546	ECJ1VB1C104K	16V 0.1U	1	
C7547	ECEA0JKS470	6.3V 47U	1	
C7548,49	ECJ1VC1H100C	50V 10P	2	
C7551,52	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J
C7553	ECJ1VC1H101J	50V 100P	1	
C7554	ECJ1VC1H220J	50V 22P	1	
C7555	ECJ1VC1H270J	50V 27P	1	
C7556	ECJ1VC1H150J	50V 15P	1	
C7557	ECJ1VC1H270J	50V 27P	1	
C7558	ECJ1VB1H103K	50V 0.01U	1	
C7559	ECJ1VC1H470J	50V 47P	1	
C7560	ECJ1VB1H103K	50V 0.01U	1	
C7561	ECJ1VC1H470J	50V 47P	1	
C7562	ECJ1VB1C104K	16V 0.1U	1	
C7563	ECJ1VC1H470J	50V 47P	1	
C7564	ECJ1VB1C104K	16V 0.1U	1	
C7565,66	ECJ1VC1H100C	50V 10P	2	
C7567	ECEA0JKS470	6.3V 47U	1	
C7568	ECJ1VB1H103K	50V 0.01U	1	
C7570	ECJ1VB1C104K	16V 0.1U	1	
C7571	ECJ1VB1H103K	50V 0.01U	1	
C7572	ECJ1VB1C104K	16V 0.1U	1	
C7573	ECEA0JKS470	6.3V 47U	1	
C7575-77	ECJ1VB1H103K	50V 0.01U	3	
C7578,79	ECJ1VC1H101J	50V 100P	2	
C7580	ECEA0JKS101	6.3V 100U	1	
C7581	ECJ1VF1C104Z	16V 0.1U	1	
C7582	VCE0073-T	CAPACITOR	1	F4D55473A005
C7583	ECEA1AKS221	10V 220U	1	
C7584	ECJ1VF1C104Z	16V 0.1U	1	
C7585	ECJ1VB1H103K	50V 0.01U	1	
C7586	ECEA1CKA470	16V 47U	1	
C7587	ECJ1VF1C104Z	16V 0.1U	1	
C7589,90	ECJ1VC1H100C	50V 10P	2	
C7593-95	ECJ1VC1H100C	50V 10P	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7599	ECJ1VC1H101J	50V 100P	1	
C7600	ECJ1VF1C104Z	16V 0.1U	1	
C7601	ECEA0JKS470	6.3V 47U	1	
C7603	ECEA0JKS470	6.3V 47U	1	
C7604	ECJ1VB1H103K	50V 0.01U	1	
C7605	ECEA0JKS470	6.3V 47U	1	
C7606	ECJ1VF1C104Z	16V 0.1U	1	
C7607	ECJ1VF1H103Z	50V 0.01U	1	
C7608	ECJ1VF1C104Z	16V 0.1U	1	
C7609,10	ECJ1VB1H103K	50V 0.01U	2	
C7611,12	F1J0J4750004	6.3V 4.7U	2	
C9935,36	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J
D4001	MA2C165001VT	DIODE	1	
D4005,06	MA3Z142D0RG	DIODE	2	
D7401	MA2C165001VT	DIODE	1	
D7402	MA4300N-M	DIODE	1	MAZ4300NM
D7403	MA2C165001VT	DIODE	1	
D7501	VSD0002	DIODE	1	B0HAGR000005
D7502	ERA22-02	DIODE	1	B0HAGM000001
D7503	MAZ4240NMF	DIODE	1	
D7504,05	MA2C18500E	DIODE	2	
D7506	MA4300N-M	DIODE	1	MAZ4300NM
D7507	B0ACCK000005	DIODE	1	
D7512	MA719	DIODE	1	MA2C719
D7513	B0JACE000001	DIODE	1	
DP7501	A2BD00000070	FL DISPLAY TUBE	1	
DU7402	ENG47327G1	TUNER PACK	1	(EG)
DU7402	ENG47328G1	TUNER PACK	1	(EB)
FL3003	ELB4B106	FILTER	1	
FL3004	ELB4A029	FILTER	1	
FL3005-07	ELB4C083	FILTER	3	
IC1501	C0DBZHG00012	IC	1	
IC1502	C0DBEFG00002	IC	1	
IC1504	C0DBZGG00010	IC	1	
IC1505	C0DBCHD00002	IC	1	
IC1509	C0DBZFG00012	IC	1	
IC1513	C0DBZHE00014	IC	1	
IC3001	C1AB00001805	IC	1	
IC3002	C0JBAR000292	IC	1	
IC3003	C9ZB00000377	IC	1	
IC3004	C0JBAR000292	IC	1	
IC4001	C1AB00001779	IC	1	
IC4005	TC7W04FTE12L	IC	1	C0JBAB000178
IC4006	K7AAAB000013	IC	1	
IC4007	TC7SET08F	IC	1	C0JBAA000284
IC4009	NJM4580M	IC	1	C0ABBB000126
IC4010	C0DBZJG00005	IC	1	
IC4011	C0DBZHE00013	IC	1	
IC4012	C0ABBB000118	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC4013	AN78L09M	IC	1	
IC7401	C0DBZJG00005	IC	1	
IC7402,03	C0DBCHD00002	IC	2	
IC7501	C0HBB0000029	IC	1	
IC7502	C2CBJG000305	IC	1	
IC7503	C0DBFHD00003	IC	1	
IC7504	C0EBJ0000153	IC	1	
IC7505	C0EBF0000182	IC	1	
IC7506	C3EBJC000038	IC	1	
IC7507	NJM2904M	IC	1	C0ABBA000021
IC7508	C0EBE0000218	IC	1	
IP4001	D4FAR4000001	IC PROTECTOR	1	⚠
IP7501	D4FAR4000001	IC PROTECTOR	1	⚠
JK3001	K1U822B00001	JACK,AV IN/OUT	1	
L3006,07	G0C4R7JA0019	COIL 4.7UH	2	
L4002	ELESE220KA	COIL 22UH	1	(EB)
L7402	VLQ0599J270	COIL 27UH	1	G0C270JA0026
L7403	VLQ0599J2R2	COIL 2.2UH	1	G0C2R2JA0026
LB1501-05	J0JHC0000032	COIL	5	
LB3001-04	J0JGC0000020	COIL	4	
LB3012-16	J0JHC0000032	COIL	5	
LB4001	J0JGC0000020	COIL	1	
LB7401	J0JCC0000120	COIL	1	(EB)
LB7402-07	J0JHC0000032	COIL	6	
LB7501,02	ERJ3GEY0R00V	1/16W 0	2	
LB7503	G0ZZ00001936	COIL	1	
LB7504	J0JGC0000020	COIL	1	
LB7505	ERJ3GEY0R00V	1/16W 0	1	
LB7506-10	J0JGC0000020	COIL	5	
LB7511	ERJ3GEY0R00V	1/16W 0	1	
LB7512	J0JGC0000020	COIL	1	
LB7519	ERJ3GEY0R00V	1/16W 0	1	
LB7520	J0JGC0000020	COIL	1	
LB7521	ERJ3GEY0R00V	1/16W 0	1	
LB7522	J0JGC0000020	COIL	1	
LB9704	ERJ3GEY0R00V	1/16W 0	1	
P7501	K1KB20B00040	CONNECTOR(20P)	1	
P7504	TJS118601T	CONNECTOR(3P)	1	K1KA03A00173
PP1501	K1KA19A00016	CONNECTOR(19P)	1	
PP1502	K1KA08A00355	CONNECTOR(8P)	1	
PP1503	K1KA15A00124	CONNECTOR(15P)	1	
PP3001	VJP3042G008W	CONNECTOR(8P)	1	K1KA08A00163
PP3002	VJP3042G012W	CONNECTOR(12P)	1	K1KA12A00136
PP7401	VJP3042G020W	CONNECTOR(20P)	1	K1KA20A00203
PP7402	VJP3042G012W	CONNECTOR(12P)	1	K1KA12A00136
PP7403	K1KA15A00064	CONNECTOR(15P)	1	
PP9701-03	K1KA30A00180	CONNECTOR(30P)	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q3005	2SB1218A	TRANSISTOR	1	
Q3007-14	2SB1218A	TRANSISTOR	8	
Q4004	2SB1218A	TRANSISTOR	1	
Q4006-09	2SD132800L	TRANSISTOR	4	
Q7401	2SD1819AWL	TRANSISTOR	1	
Q7402	2SB1218A	TRANSISTOR	1	
Q7403-06	2SD0601A0L	TRANSISTOR	4	
Q7501,02	2SD0601A0L	TRANSISTOR	2	
Q7503	2SD1994BR1VT	TRANSISTOR	1	
Q7504	2SD0601A0L	TRANSISTOR	1	
Q7505	2SB709A	TRANSISTOR	1	2SB0709A
Q7506	2SD1819A0L	TRANSISTOR	1	
Q7507	2SB709A	TRANSISTOR	1	2SB0709A
Q7508	2SD1819A0L	TRANSISTOR	1	
Q7509	2SC2295	TRANSISTOR	1	
Q7510	2SB709A	TRANSISTOR	1	2SB0709A
Q7511,12	2SD0601A0L	TRANSISTOR	2	
Q7513	2SD1819A0L	TRANSISTOR	1	
Q7515	2SD1119-R	TRANSISTOR	1	2SD11190R
Q7516	2SB710A	TRANSISTOR	1	2SB0710A
QR4001-07	UN5211	TRANSISTOR	7	UNR5211
QR4012	UN5113TW	TRANSISTOR	1	
QR7401-03	UN5213TX	TRANSISTOR	3	UNR521300L
QR7404	UNR511400L	TRANSISTOR	1	
QR7405	UN5213TX	TRANSISTOR	1	UNR521300L
QR7406	UN2115TW	TRANSISTOR	1	UNR211500L (EB)
QR7407	UN2215	TRANSISTOR	1	UNR2215 (EB)
QR7501	UN5213TX	TRANSISTOR	1	UNR521300L
QR7502	UN5113TW	TRANSISTOR	1	
QR7503	UN5212TX	TRANSISTOR	1	UNR521200L
R1501	ERJ3GEY0R00V	1/16W 0	1	
R1502	ERJ3GEYJ471V	1/16W 470	1	
R1515	ERDS2FJ271	1/4W 270	1	
R3001	ERJ3GEY0R00V	1/16W 0	1	
R3002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3003	ERJ3GEYJ102V	1/16W 1K	1	
R3004	ERJ3GEYJ132V	1/16W 1.3K	1	
R3005,06	ERJ3GEYJ102V	1/16W 1K	2	
R3019	ERJ3GEYJ152V	1/16W 1.5K	1	
R3020	ERJ3GEY0R00V	1/16W 0	1	
R3021	ERJ3GEYJ102V	1/16W 1K	1	
R3022-24	MCR03PZHJ561	1/16W 560	3	
R3025	ERJ3GEYJ152V	1/16W 1.5K	1	
R3026	ERJ3GEYJ102V	1/16W 1K	1	
R3027	ERJ3GEY0R00V	1/16W 0	1	
R3031,32	MCR03PZHJ561	1/16W 560	2	
R3034	ERJ3GEY0R00V	1/16W 0	1	
R3035	ERJ3GEYJ102V	1/16W 1K	1	
R3036	ERJ3GEYJ221V	1/16W 220	1	
R3037	ERJ3GEYJ272V	1/16W 2.7K	1	
R3038-40	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R3041,42	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3043	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3045	ERJ3GEYJ102V	1/16W 1K	1	
R3046,47	ERJ3GEYJ221V	1/16W 220	2	
R3048-50	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002
R3051	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3052	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3056,57	ERJ3GEYJ102V	1/16W 1K	2	
R3058-60	ERJ3GEYJ331V	1/16W 330U	3	
R3062	ERJ3GEYJ102V	1/16W 1K	1	
R3063	ERJ3RBD333V	1/16W 33K	1	
R3064	ERJ3RBD562V	1/16W 5.6K	1	
R3065	ERJ3RBD333V	1/16W 33K	1	
R3066	ERJ3RBD562V	1/16W 5.6K	1	
R3068	ERJ3RBD333V	1/16W 33K	1	
R3069	ERJ3RBD562V	1/16W 5.6K	1	
R3070	ERJ3RBD333V	1/16W 33K	1	
R3071	ERJ3RBD562V	1/16W 5.6K	1	
R3072	ERJ3RBD333V	1/16W 33K	1	
R3073	ERJ3RBD562V	1/16W 5.6K	1	
R3074	ERJ3RBD333V	1/16W 33K	1	
R3075	ERJ3RBD562V	1/16W 5.6K	1	
R3076	ERJ3RBD333V	1/16W 33K	1	
R3077	ERJ3RBD562V	1/16W 5.6K	1	
R3078-83	ERJ6GEYJ750V	1/10W 75	6	
R3084	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3085	ERJ3GEYJ102V	1/16W 1K	1	
R3086	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3089	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3090	ERJ3GEYJ102V	1/16W 1K	1	
R3093	ERJ3GEYJ102V	1/16W 1K	1	
R4001	ERJ6GEYJ102V	1/10W 1K	1	
R4002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4003	ERJ3GEYJ334V	1/16W 330K	1	
R4004,05	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R4006	ERJ3GEYJ334V	1/16W 330K	1	
R4007	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4008,09	ERJ3GEYJ823V	1/16W 82K	2	D0GB823JA002
R4010,11	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R4012	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R4013	ERJ6GEYJ102V	1/10W 1K	1	
R4014	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4015	ERJ6GEYJ102V	1/10W 1K	1	
R4016	ERJ3GEYJ225V	1/16W 2.2M	1	
R4017	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4019,20	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R4021,22	ERJ3GEYJ823V	1/16W 82K	2	D0GB823JA002
R4023	ERJ6GEYJ102V	1/10W 1K	1	
R4024	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4027	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4030	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4039,40	ERJ3GEYD153V	1/16W 15K	2	D0HB153ZA002
R4044,45	ERJ3GEY0R00V	1/16W 0	2	
R4046,47	JAR0816P752D	1/16W 7.5K	2	D0HB752ZA002
R4055	JAR0816P153D	1/16W 15K	1	D0HB153ZA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4057	JAR0816P153D	1/16W 15K	1	D0HB153ZA002
R4066,67	JAR0816P103D	1/16W 10K	2	D0HB103ZA002
R4070	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R4071	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4074	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4076	ERJ3GEYJ821V	1/16W 820	1	
R4077	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R4078,79	ERJ3GEYJ272V	1/16W 2.7K	2	
R4080	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R4081	ERJ3GEYJ821V	1/16W 820	1	
R4087	ERJ3GEYJ102V	1/16W 1K	1	
R4088,89	ERJ3GEYJ272V	1/16W 2.7K	2	
R4090	ERJ3GEYJ221V	1/16W 220	1	
R4093	ERJ3GEYJ221V	1/16W 220	1	
R4099	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7401,02	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R7403	ERJ3GEYJ392V	1/16W 3.9K	1	
R7404	ERJ3GEYJ472V	1/16W 4.7K	1	
R7405	ERDS2FJ471	1/4W 470	1	
R7406	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7407	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7408	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7409	ERJ3GEYJ271V	1/16W 270	1	(EB)
R7410	ERJ3GEYJ100	1/16W 10	1	(EB)
R7411	ERG2SJ471E	2W 470	1	
R7412	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R7413,14	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7415,16	ERJ3GEYJ471V	1/16W 470	2	
R7417	ERG2SJ471E	2W 470	1	
R7419,20	ERJ3GEYJ151V	1/16W 150	2	
R7421,22	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7423	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002 (EB)
R7424	ERJ3GEYJ102V	1/16W 1K	1	
R7425	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7426	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7427	ERJ3GEYJ102V	1/16W 1K	1	
R7428	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7429	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7430	ERJ3GEYJ102V	1/16W 1K	1	
R7431	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7432	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7433	ERJ3GEYJ102V	1/16W 1K	1	
R7434	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7435	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7501	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7502	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7503	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7504	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7505	ERJ3GEYJ102V	1/16W 1K	1	
R7506,07	ERJ3GEYJ221V	1/16W 220	2	
R7508	ERJ3RBD273V	1/16W 27K	1	
R7510	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7511	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7512	ERDS2FJ331	1/4W 330	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7513	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7514	ERDS2FJ3R9	1/4W 3.9	1	
R7515	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7516	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7517	ERJ3GEYJ102V	1/16W 1K	1	
R7518	ERJ3GEYJ104	1/16W 100K	1	
R7519	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7520	ERJ3GEYJ392V	1/16W 3.9K	1	
R7521	ERJ3GEYJ102V	1/16W 1K	1	
R7522	ERJ3GEYJ104	1/16W 100K	1	
R7523	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7524	ERJ3GEYG152	1/16W 1.5K	1	
R7525	ERJ3GEYG562V	1/16W 5.6K	1	
R7526	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7527	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7528	ERJ3GEYJ472V	1/16W 4.7K	1	
R7529	ERJ3GEYJ182V	1/16W 1.8K	1	
R7530	ERJ3GEYJ102V	1/16W 1K	1	
R7531	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7532	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7533,34	ERJ3GEYJ472V	1/16W 4.7K	2	
R7535	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7536	ERJ3GEYJ472V	1/16W 4.7K	1	
R7537	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7538	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002
R7539	ERJ3GEYJ225V	1/16W 2.2M	1	
R7540	ERJ3GEYJ224V	1/16W 220K	1	D0GB224JA002
R7541	ERJ3GEYJ104	1/16W 100K	1	
R7542	ERJ3GEYJ221V	1/16W 220	1	
R7543	ERJ3GEYJ104	1/16W 100K	1	
R7544	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7545	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7546	ERJ3GEYJ472V	1/16W 4.7K	1	
R7547	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7548	ERJ3GEY0R00V	1/16W 0	1	
R7549	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7550	ERJ3GEY0R00V	1/16W 0	1	
R7551	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7552-54	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002
R7555	ERJ3GEYJ221V	1/16W 220	1	
R7556	ERJ3GEYJ472V	1/16W 4.7K	1	
R7557,58	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7559	ERJ3GEYJ511	1/16W 510	1	
R7560,61	ERJ3GEYJ202V	1/16W 2K	2	
R7562	ERJ3GEYJ472V	1/16W 4.7K	1	
R7563-68	ERJ3GEYJ101	1/16W 100	6	D0GB101JA002
R7569-71	ERJ3GEYJ472V	1/16W 4.7K	3	
R7572,73	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7574	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7575	ERJ3GEYG433	1/16W 43K	1	
R7576	ERJ3GEYG393V	1/16W 39K	1	
R7577-81	ERJ3GEYJ101	1/16W 100	5	D0GB101JA002
R7582	ERJ3GEYJ102V	1/16W 1K	1	
R7590-92	ERJ3RBD822	1/16W 8.2K	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7593,94	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R7595,96	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7598	ERJ3GEYJ181V	1/16W 180	1	
R7599	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7600	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7601	ERJ3GEYJ821V	1/16W 820	1	
R7602	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R7604,05	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R7607	ERJ3GEYJ472V	1/16W 4.7K	1	
R7617	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7618	ERJ3GEYJ472V	1/16W 4.7K	1	
R7619	ERJ3GEYJ104	1/16W 100K	1	
R7620-23	ERJ3GEYJ223V	1/16W 22K	4	D0GB223JA002
R7624	ERJ3GEYJ102V	1/16W 1K	1	
R7625	ERDS2TJ392	1/4W 3.9K	1	
T7501	ETS13TB119AP	TRANSFORMER	1	⚠
W501-19	ERJ3GEY0R00V	1/16W 0	19	
W520,21	ERJ6GEY0R00V	1/10W 0	2	
W522-27	ERJ3GEY0R00V	1/16W 0	6	
W528	ERJ6GEY0R00V	1/10W 0	1	
W529-31	ERJ3GEY0R00V	1/16W 0	3	
W532	ERJ6GEY0R00V	1/10W 0	1	
X7501	H0D443400035	CRYSTAL OSCILLATOR	1	
X7502	H0A327200064	CRYSTAL OSCILLATOR	1	
X7503	VSX1043-T	CRYSTAL OSCILLATOR	1	H0D100500006
ZJ7401-04	VJR0978	EARTH ANGLE	4	K9ZZ00000424
~	06	VEP07A23Y/VEP07A23Z		
C0701	ECJ2XF1C105Z	16V 1U	1	
C0702	ECJ1VB1H102K	50V 1000P	1	
C0703	ECJ2YB1A105K	10V 1U	1	
C0704	ECJ2VB1E333K	25V 0.033U	1	
C0707	ECEA1HKS2R2	50V 2.2U	1	
C0708	ECEA1HKAR47B	50V 0.47U	1	
C0710	ECJ1VF1H103Z	50V 0.01U	1	
C0711	ECEA1CKS220	16V 22U	1	
C0712	ECJ1VF1C104Z	16V 0.1U	1	
C0713	ECEA0JKS331	6.3V 330U	1	
C0714	ECJ2XF1C105Z	16V 1U	1	
C0715	ECJ1VC1H030C	50V 3P	1	(EG)
C0715	ECJ1VC1H120J	50V 12P	1	(EB)
C0717	ECUM1H330GU	50V 33U	1	
C0719	ECJ1XF1E104Z	25V 0.1U	1	F1H1E104A030
C0721	ECJ1VC1H390J	50V 39P	1	
C0724	ECJ1VB1H221K	50V 220P	1	(EG)
C0724	ECUV1H331KBV	50V 330P	1	ECJ1VB1H331K (EB)
D0702	ERJ6GEY0R00V	1/10W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC0701	LA75503	IC	1	C1AA00000606
K0701	ECUV1H680JCV	50V 68P	1	ECJ1VC1H680J (EG)
K0703	ERJ3GEY0R00V	1/16W 0	1	
K0707	ERJ3GEY0R00V	1/16W 0	1	
K0709	ERJ3GEY0R00V	1/16W 0	1	
L0701	ELJNAR22JF	COIL 22UH	1	(EB)
L0701	VLQ0163JR33	COIL 33UH	1	G1CR33J00002 (EG)
L0703	ELJNA1R8JF	COIL 1.8UH	1	(EB)
L0703	ELJNA2R2JF	COIL 2.2UH	1	(EG)
PK0701	VJR0826E009W	CONNECTOR(9P)	1	K1MR09A00028
PP0701	VJP3589E004B	CONNECTOR(4P)	1	K1KA04B00135
Q0702	2SD0601ASL	TRANSISTOR	1	
R0701	ERJ6GEYJ104V	1/10W 100K	1	(EB)
R0705	ERJ3GEYJ472V	1/16W 4.7K	1	
R0707	ERJ3GEYJ393V	1/16W 39K	1	D0GB393JA002
R0708	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R0711	ERJ3GEYJ181V	1/16W 180	1	
R0713	ERJ3GEY0R00V	1/16W 0	1	
R0715	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R0717	ERJ3GEYJ471V	1/16W 470	1	
R0719	ERJ3GEYJ472V	1/16W 4.7K	1	
R0725	ERJ6GEYJ101V	1/10W 100	1	
R0727,28	ERJ3GEY0R00V	1/16W 0	2	(EB)
R0729	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R0730	ERJ6GEYJ103V	1/10W 10K	1	(EG)
R0740	ERJ3GEYG102	1/16W 1K	1	
R0741	ERJ3GEYJ221V	1/16W 220	1	
R0742	ERJ8GEYJ151V	1/8W 150	1	
R0745	ERJ6GEYJ335V	1/10W 3.3M	1	
T0701	EQV5EC082P	TRANSFORMER	1	(EG) ⚠
T0701	EQV5EC083P	TRANSFORMER	1	(EB) ⚠
VR0701	EVNCYAA03B14	VR	1	
W501	ERJ6GEY0R00V	1/10W 0	1	
W502,03	ERJ8GEY0R00V	1/8W 0	2	
W504	ERJ6GEY0R00V	1/10W 0	1	
W506	ERJ8GEY0R00V	1/8W 0	1	
W507-13	ERJ6GEY0R00V	1/10W 0	7	
W514	ERJ8GEY0R00V	1/8W 0	1	
W515	ERJ6GEY0R00V	1/10W 0	1	
W516,17	ERJ8GEY0R00V	1/8W 0	2	
X0701	VLF1416	FILTER	1	J0B4045A0002 (EG)
X0701	VLF1417	FILTER	1	J0B4155A0003 (EB)
X0704	VLF1493	CRYSTAL OSCILLATOR	1	(EG)
X0704	VLF1495	CRYSTAL OSCILLATOR	1	(EB)

X0704	VLP 1400	CRYSTAL OSCILLATOR	1	(LD)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
~	08	VEP07A51A		
C7301	ECJ1VF1C104Z	16V 0.1U	1	
C7302	ERJ3GEY0R00V	1/16W 0	1	
C7303	ECEA0JKS101	6.3V 100U	1	
C7305	ECEA0JKS101	6.3V 100U	1	
C7306	ECJ1VF1H103Z	50V 0.01U	1	
C7307,08	ECJ1VC1H100C	50V 10P	2	
C7309-11	ECJ1VC1H101J	50V 100P	3	
C7312,13	ECEA1CKS100	16V 10U	2	
C7314	ECJ1VF1C104Z	16V 0.1U	1	
C7317	ECEA1CKA470	16V 47U	1	
C7318	ECEA1CKS100	16V 10U	1	
C7323	ECJ1VC1H102J	50V 1000P	1	
C7324	ECJ1VF1C104Z	16V 0.1U	1	
C7329	ERJ3GEY0R00V	1/16W 0	1	
C7330	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002
C7332	ECJ1VF1C104Z	16V 0.1U	1	
C7333	ECJ1VB1C104K	16V 0.1U	1	
C7334	ECEA1HKS2R2	50V 2.2U	1	
C7335	ECJ1VF1C104Z	16V 0.1U	1	
IC7301	TDA9874AH	IC	1	C1AB00001404
IC7302	PST7043-T	IC	1	C0EAH0000051
K7301-03	ERJ3GEY0R00V	1/16W 0	3	
K7305	ERJ3GEY0R00V	1/16W 0	1	
L7303	G0C1R0JA0019	COIL	1	
LB7301,02	VLP0153	COIL	2	J0JCC0000112
LB7303	VLP0150	COIL	1	J0JCC0000021
PK7301	VJR0777B007W	CONNECTOR(7P)	1	K1MM07B00002
PK7302	VJR0777B006W	CONNECTOR(6P)	1	K1MM06B00002
R7301	ERJ3GEY0R00V	1/16W 0	1	
R7304	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7307	ERJ3GEY0R00V	1/16W 0	1	
R7309	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7311	ERJ3GEYJ221V	1/16W 220	1	
R7312,13	ERJ3GEYG221	1/16W 220	2	
R7314,15	ERJ3GEY0R00V	1/16W 0	2	
R7317	ERJ3GEY0R00V	1/16W 0	1	
R7319	ERJ3GEY0R00V	1/16W 0	1	
R7322	ERJ3GEY0R00V	1/16W 0	1	
R7324,25	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
W6,W7	ERJ3GEY0R00V	1/16W 0	2	
X7301	H0D245500016	CRYSTAL OSCILLATOR	1	
~	10	REP3584A/REP3585AB		

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3201	EEE0JA470SR	6.3V 47U	1	
C3202	ECJ1VB1H103K	50V 0.01U	1	
C3203-06	ECJ1VB1C104K	16V 0.1U	4	
C3207	ECJ1VB1H103K	50V 0.01U	1	
C3208	ECJ1VB1C104K	16V 0.1U	1	
C3209,10	ECJ1VB1H103K	50V 0.01U	2	
C3211	ECJ1VF1C104Z	16V 0.1U	1	
C3212,13	EEE0JA470SR	6.3V 47U	2	
C3214	ECJ1VB1C104K	16V 0.1U	1	
C3215	ECJ1VB1H103K	50V 0.01U	1	
C3216	EEE0JA470SR	6.3V 47U	1	
C3217,18	ECST1AY106R	10V 10U	2	
C3226	ECJ1VB1C104K	16V 0.1U	1	
C3227	EEE0JA101SP	6.3V 100U	1	
C3228	ECJ1VB1H103K	50V 0.01U	1	
C3229,30	ECJ1VB1H102K	50V 1000P	2	
C3231	ECJ1VB1H103K	50V 0.01U	1	
C3234-38	ECJ1VB1H103K	50V 0.01U	5	
C3239-41	ECJ1VB0J105K	6.3V 1U	3	
C3242	ECJ1VB1H103K	50V 0.01U	1	
C3243,44	ECJ1VB1C104K	16V 0.1U	2	
C3245	ECJ1VB1H103K	50V 0.01U	1	
C3246-55	ECJ1VB1C104K	16V 0.1U	10	
C3256-58	ECST1AY106R	10V 10U	3	
C3401-03	ECST1AY106R	10V 10U	3	
C3502	ECJ1VB1H103K	50V 0.01U	1	
C3604	ECST1AY106R	10V 10U	1	
C4402	ECJ1VF1C104Z	16V 0.1U	1	
C4403	F2G0J331A015	6.3V 330U	1	
C4406	EEE0JA220SR	6.3V 22U	1	
C4407	ECJ1VF1C104Z	16V 0.1U	1	
C4408	EEE0JA101SP	6.3V 100U	1	
C4409-14	ECJ1VB1H102K	50V 1000P	6	
C4415	EEE1EA4R7SR	25V 4.7U	1	
C4416	ECJ1VF1C104Z	16V 0.1U	1	
C4417	ECST1AY106R	10V 10U	1	
C4418,19	ECJ1VF1C104Z	16V 0.1U	2	
C6001	ECJ1VF1C104Z	16V 0.1U	1	
C9001	EEE0JA470SR	6.3V 47U	1	
C9003	EEE0JA470SR	6.3V 47U	1	
C9005-08	EEE0JA470SR	6.3V 47U	4	
C9009,10	ECJ1VC1H470J	50V 47P	2	
C9011	EEE0JA470SR	6.3V 47U	1	
C9012	ECJ1VC1H470J	50V 47P	1	
C9013	EEE0JA470SR	6.3V 47U	1	
C9015	ECJ1VF1C104Z	16V 0.1U	1	
C9016	EEE0JA470SR	6.3V 47U	1	
C9017	ECJ1VF1C104Z	16V 0.1U	1	
C9018	ECJ1VC1H470J	50V 47P	1	
C9019	F1J0J106A014	6.3V 10U	1	
C9020	EEE0JA101SP	6.3V 100U	1	
C9021	ECJ1VF1C104Z	16V 0.1U	1	
C9022	ECJ1VB1H103K	50V 0.01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C37001	ECUV1H271JCV	50V 270P	1	ECJ1VC1H271J
C37002,03	ECJ2YB1A105K	10V 1U	2	
C37007,08	ECJ1VC1H120J	50V 12P	2	
C37009	ECJ1VB1C104K	16V 0.1U	1	
C37011	ECJ1VB1C104K	16V 0.1U	1	
C37012	EEE0JA470SR	6.3V 47U	1	
C37013	ECJ1VB1C104K	16V 0.1U	1	
C37014	ECJ2YB1A105K	10V 1U	1	
C37015	EEE0JA101SP	6.3V 100U	1	
C37025	ECJ1VB1C104K	16V 0.1U	1	
C37031	ECJ1XC1H180J	50V 18P	1	ECJ1VC1H180J
C37032	ECJ1VC1H330J	50V 33P	1	
C37033	ECJ1VB1C104K	16V 0.1U	1	
C37034	ECJ2YB1A105K	10V 1U	1	
C37035,36	ECJ1VC1H560J	50V 56P	2	
C50001	ECJ1VF1C104Z	16V 0.1U	1	
C50007	ECJ1VB1C104K	16V 0.1U	1	
C50008,09	ECJ1VB0J105K	6.3V 1U	2	
C50010	EEE0JA220SR	6.3V 22U	1	
C50013,14	ECJ1VF1C104Z	16V 0.1U	2	
C50015	EEE0JA220SR	6.3V 22U	1	
C50016	ECJ1VF1C104Z	16V 0.1U	1	
C50018	EEE0JA101SP	6.3V 100U	1	
C50025	ECST1AY106R	10V 10U	1	
C50026	EEE0JA470SR	6.3V 47U	1	
C50027	EEE1CA100SR	16V 10U	1	
C50028	ECJ1VF1C104Z	16V 0.1U	1	
C50031-33	ECST1AY106R	10V 10U	3	
D3203,04	MA2ZV0100L	DIODE	2	
D3205,06	MA3S132E0L	DIODE	2	
D9001	MA3Z142K0LG	DIODE	1	
FL3201,02	F1H0J1050018	FILTER	2	
FL3205	F1H0J1050018	FILTER	1	
FL3209-21	F1H0J1050018	FILTER	13	
FL3225	F1H0J1050018	FILTER	1	
FL3401-06	F1H0J1050018	FILTER	6	
FL3409-11	F1H0J1050018	FILTER	3	
FL3421	F1H0J1050018	FILTER	1	
FL3428	F1H0J1050018	FILTER	1	
FL3501-14	F1H0J1050018	FILTER	14	
FL4401,02	F1H0J1050018	FILTER	2	
FL6001-06	F1H0J1050018	FILTER	6	
FL6009-13	F1H0J1050018	FILTER	5	
FL6701-03	F1H0J1050018	FILTER	3	
FL9003,04	F1H0J1050018	FILTER	2	
FL9006,07	F1H0J1050018	FILTER	2	
FL9012,13	F1H0J1050018	FILTER	2	
FL9016	F1H0J1050018	FILTER	1	
FL9020	F1H0J1050018	FILTER	1	
FL9022	F1H0J1050018	FILTER	1	
FL37001-09	F1H0J1050018	FILTER	9	
FL37012	F1H0J1050018	FILTER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FL37014,15	F1H0J1050018	FILTER	2	
FL50001,02	F1H0J1050018	FILTER	2	
FL50005-14	F1H0J1050018	FILTER	10	
FL50016-21	F1H0J1050018	FILTER	6	
FL50023	F1H0J1050018	FILTER	1	
FL50025	F1H0J1050018	FILTER	1	
FL50028	F1H0J1050018	FILTER	1	
FP3501	K1MN40A00018	CONNECTOR(40P)	1	
IC3201	C3ABMG000103	IC	1	
IC3202	AN13310A-VB	IC	1	
IC3203	MN673747	IC	1	
IC3204,05	C0JBAB000474	IC	2	
IC3401	C3ABPJ000018	IC	1	
IC3402	MN85572	IC	1	
IC3501,02	C3ABQG000043	IC	2	
IC3503	MN88301	IC	1	
IC4402	C0ABBB000105	IC	1	
IC4403	C0FBAK000008	IC	1	
IC4404	C0JBAA000257	IC	1	
IC6001	C0EBE0000130	IC	1	
IC6002	C3ABQG000043	IC	1	
IC6004	MN103E0500YD	IC	1	
IC6006	C3CBKD000119	IC	1	
IC6007	74LCX16244MT	IC	1	C0JBAZ001475
IC6701	C1ZBZ0002255	IC	1	
IC6702	C0JBAB000474	IC	1	
IC6703	REP3584A	IC	1	(EG)DIGITAL P.C.B.
IC6703	REP3584AB	IC	1	(EB)DIGITAL P.C.B.
IC9001	C0DBZFE00003	IC	1	
IC9002	C0DBCGD00001	IC	1	
IC9003	C0DBZFE00003	IC	1	
IC37001	MN673745	IC	1	
IC37002	C1DB00000526	IC	1	
IC37003	BH7086KV	IC	1	C1ZBZ0001649
IC37006	C1BB00000699	IC	1	
IC37008	C0JBAA000102	IC	1	
IC37011	C0JBAA000102	IC	1	
IC50001	C1DB00000895	IC	1	
IC50002	C3ABPG000078	IC	1	
IC50003	MN6775511	IC	1	
IC50004	C3ABPG000078	IC	1	
IC50005	C0JBAR000332	IC	1	
IC50006	C0JBAB000474	IC	1	
IC50009	C0JBAZ001776	IC	1	
IC50010	C0FBBK000035	IC	1	
IC50011	C0CBCBD00002	IC	1	
IC50013	C0JBAD000107	IC	1	
IC50014	C0JBAF000206	IC	1	
IC50015	C0CBCBD00002	IC	1	
L37001	VLQ0426J120	COIL 12UH	1	G1C120J00005

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB3201-07	J0JHC0000032	COIL	7	
LB3401,02	J0JHC0000032	COIL	2	
LB3501	J0JHC0000032	COIL	1	
LB3502,03	J0JHC0000045	COIL	2	
LB4401-03	J0JGC0000020	COIL	3	
LB9001	J0JHC0000032	COIL	1	
LB9002,03	J0JHC0000045	COIL	2	
LB9004,05	J0JHC0000032	COIL	2	
LB9006	J0JHC0000045	COIL	1	
LB9008,09	J0JHC0000032	COIL	2	
LB9010,11	ERJ3GEY0R00V	1/16W 0	2	
LB9012	J0JHC0000045	COIL	1	
LB9020,21	VLP0323A601T	COIL	2	J0JCC0000103
LB9038	VLP0323A601T	COIL	1	J0JCC0000103
LB37001	J0JHC0000032	COIL	1	
LB37002	VLP0335	COIL	1	J0JBC0000013
LB37005	J0JHC0000032	COIL	1	
LB50001	J0JHC0000032	COIL	1	
LB50003	J0JGC0000020	COIL	1	
LB50004,05	J0JHC0000032	COIL	2	
LB50006	J0JGC0000020	COIL	1	
P3503	K1KA70A00037	CONNECTOR(70P)	1	
P6001	K1KA06A00328	CONNECTOR(6P)	1	
PS9001-03	K1KB30A00135	CONNECTOR(30P)	3	
PS37001	K1KB08B00055	CONNECTOR(8P)	1	
Q3201	2SB1218A	TRANSISTOR	1	
Q3202	2SD1819A0L	TRANSISTOR	1	
Q6701-05	2SD0601A0L	TRANSISTOR	5	
Q50001-05	2SB1218A	TRANSISTOR	5	
QR3501	UN5213TX	TRANSISTOR	1	UNR521300L
QR3503	UN5213TX	TRANSISTOR	1	UNR521300L
R3202	ERJ3GEY0R00V	1/16W 0	1	
R3210	ERJ3GEY0R00V	1/16W 0	1	
R3214,15	ERJ3GEY0R00V	1/16W 0	2	
R3217,18	ERJ3GEYJ220V	1/16W 22	2	
R3219	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3220,21	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R3222	ERJ3GEYJ104	1/16W 100K	1	
R3223	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3224	ERJ3GEYJ102V	1/16W 1K	1	
R3227,28	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R3229,30	ERJ3GEY0R00V	1/16W 0	2	
R3231,32	ERJ3GEYJ220V	1/16W 22	2	
R3234	ERJ3GEYJ472V	1/16W 4.7K	1	
R3235,36	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3237,38	ERJ3GEY0R00V	1/16W 0	2	
R3239	ERJ3GEYJ104	1/16W 100K	1	
R3240	ERJ3GEYJ105V	1/16W 1M	1	
R3241	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3242	ERJ3GEYJ104	1/16W 100K	1	
R3245-47	ERJ3GEYJ220V	1/16W 22	3	
R3250,51	ERJ3GEYJ220V	1/16W 22	2	
R3252	ERJ3GEYJ102V	1/16W 1K	1	
R3253	ERJ3GEY0R00V	1/16W 0	1	
R3255	ERJ3GEY0R00V	1/16W 0	1	
R3261	ERJ3GEY0R00V	1/16W 0	1	
R3401	ERJ3GEYJ390	1/16W 39	1	
R3402	ERJ3GEYJ220V	1/16W 22	1	
R3403	ERJ3GEY0R00V	1/16W 0	1	
R3404	ERJ3GEYJ220V	1/16W 22	1	
R3406	ERJ3GEYJ220V	1/16W 22	1	
R3415,16	ERJ3GEYJ220V	1/16W 22	2	
R3423	ERJ3GEYJ220V	1/16W 22	1	
R3425	ERJ3GEY0R00V	1/16W 0	1	
R3427	ERJ3GEY0R00V	1/16W 0	1	
R3503	ERJ3GEYJ220V	1/16W 22	1	
R3504-06	ERJ3GEYJ330V	1/16W 33	3	D0GB330JA002
R3507,08	ERJ3GEYJ220V	1/16W 22	2	
R3509-12	ERJ3GEYJ330V	1/16W 33	4	D0GB330JA002
R3513	ERJ3GEY0R00V	1/16W 0	1	
R3514	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3515	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3516,17	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R3519-25	ERJ3GEY0R00V	1/16W 0	7	
R3526-29	ERJ3GEYJ330V	1/16W 33	4	D0GB330JA002
R3531	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3533	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3534	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3535	ERJ3GEYJ102V	1/16W 1K	1	
R3536	ERJ3GEY0R00V	1/16W 0	1	
R3538	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3539,40	ERJ3GEYJ820V	1/16W 82	2	
R3541	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3542,43	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3544	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3545,46	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3547	ERJ3GEYJ102V	1/16W 1K	1	
R3548	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R4403,04	ERJ3RBD103V	1/16W 10K	2	
R4405,06	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R4407,08	ERJ3RBD103V	1/16W 10K	2	
R4411	ERJ3GEYJ221V	1/16W 220	1	
R4412	ERJ3GEY0R00V	1/16W 0	1	
R4415,16	ERJ3GEY0R00V	1/16W 0	2	
R4418	ERJ3GEYJ470V	1/16W 47	1	
R4420	ERJ3GEY0R00V	1/16W 0	1	
R6001,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6003,04	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R6005	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6007-09	ERJ3GEYJ470V	1/16W 47	3	
R6010	ERJ3GEYJ102V	1/16W 1K	1	
R6011	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6012	ERJ3GEYJ221V	1/16W 220	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6013,14	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6015	ERJ3GEYJ105V	1/16W 1M	1	
R6016	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6017	ERJ3GEYJ470V	1/16W 47	1	
R6019	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6020	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6701,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6704,05	ERJ3GEYJ470V	1/16W 47	2	
R6706	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6707	ERJ3GEYJ104	1/16W 100K	1	
R6708	ERJ3GEY0R00V	1/16W 0	1	
R6709-14	ERJ3GEYJ470V	1/16W 47	6	
R6715	ERJ3GEYJ220V	1/16W 22	1	
R6716-18	ERJ3GEYJ470V	1/16W 47	3	
R6719	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6720,21	ERJ3GEYJ470V	1/16W 47	2	
R6722	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6723-26	ERJ3GEYJ470V	1/16W 47	4	
R6727	ERJ3GEY0R00V	1/16W 0	1	
R6728	ERJ3GEYJ104	1/16W 100K	1	
R6729	ERJ3GEYJ470V	1/16W 47	1	
R6730	ERJ3GEYJ102V	1/16W 1K	1	
R6731,32	ERJ3GEYJ470V	1/16W 47	2	
R6733-38	ERJ3GEY0R00V	1/16W 0	6	
R6739	ERJ3GEYJ470V	1/16W 47	1	
R6740,41	ERJ3GEY0R00V	1/16W 0	2	
R6742	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6743	ERJ3GEY0R00V	1/16W 0	1	
R6744,45	ERJ3GEYJ470V	1/16W 47	2	
R6746,47	ERJ3GEY0R00V	1/16W 0	2	
R6748	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6749	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6750	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6753	ERJ3GEYJ472V	1/16W 4.7K	1	
R6755	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6756	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R9001	ERJ3GEY0R00V	1/16W 0	1	
R9008	ERJ3GEY0R00V	1/16W 0	1	
R9014	ERJ3GEY0R00V	1/16W 0	1	
R9015	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R9016	ERJ3GEY0R00V	1/16W 0	1	
R37001-04	ERJ3RED560V	1/16W 56	4	
R37005	ERJ3RBD512	1/16W 5.1K	1	
R37006	ERJ3GEYJ105V	1/16W 1M	1	
R37007	ERJ3RBD622	1/16W 6.2K	1	
R37008	ERJ3EKF1800	1/16W 180	1	
R37009	ERJ3GEYJ102V	1/16W 1K	1	
R37010-15	ERJ3GEY0R00V	1/16W 0	6	
R37016	ERJ3GEYJ102V	1/16W 1K	1	
R37017	ERJ3GEYJ472V	1/16W 4.7K	1	
R37018	ERJ3GEYJ105V	1/16W 1M	1	
R37019,20	ERJ3GEY0R00V	1/16W 0	2	
R37021	ERJ3GEYJ102V	1/16W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R37022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37028	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R37029,30	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R37032-38	ERJ3GEY0R00V	1/16W 0	7	
R37044	ERJ3GEYJ221V	1/16W 220	1	
R37046	ERJ3GEYJ102V	1/16W 1K	1	
R37047,48	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R37049	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R37050-52	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37053	ERJ3GEY0R00V	1/16W 0	1	
R37054	ERJ3GEYJ472V	1/16W 4.7K	1	
R37055	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R37057,58	ERJ3GEY0R00V	1/16W 0	2	
R37060	ERJ3GEYJ220V	1/16W 22	1	
R37061	ERJ3GEY0R00V	1/16W 0	1	
R37062	ERJ3GEYJ102V	1/16W 1K	1	
R37063	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37064-70	ERJ3GEY0R00V	1/16W 0	7	
R37100	ERJ3GEYJ220V	1/16W 22	1	
R37103	ERJ3GEYJ220V	1/16W 22	1	
R37104-06	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37109,10	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R50001	ERJ3GEYJ220V	1/16W 22	1	
R50002-04	ERJ3GEYJ470V	1/16W 47	3	
R50005,06	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R50007-10	ERJ3GEYJ220V	1/16W 22	4	
R50012	ERJ3GEY0R00V	1/16W 0	1	
R50013	ERJ3RBD273V	1/16W 27K	1	
R50015	ERJ3RBD153	1/16W 15K	1	
R50017	ERJ3GEYJ390	1/16W 39	1	
R50018	ERJ3GEY0R00V	1/16W 0	1	
R50019	ERJ3GEYJ470V	1/16W 47	1	
R50021	ERJ3GEYJ220V	1/16W 22	1	
R50022	ERJ3GEYJ102V	1/16W 1K	1	
R50023	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50024	ERJ3GEYJ470V	1/16W 47	1	
R50025	ERJ3RED750V	1/16W 75	1	
R50026	ERJ3GEYJ102V	1/16W 1K	1	
R50027	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50030	ERJ3RED750V	1/16W 75	1	
R50031	ERJ3GEYJ102V	1/16W 1K	1	
R50032	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50033	ERJ3GEY0R00V	1/16W 0	1	
R50034	ERJ3RED750V	1/16W 75	1	
R50035	ERJ3GEYJ102V	1/16W 1K	1	
R50036	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50037	ERJ3GEY0R00V	1/16W 0	1	
R50038	ERJ3RED750V	1/16W 75	1	
R50039	ERJ3GEYJ102V	1/16W 1K	1	
R50040	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50041	ERJ3GEY0R00V	1/16W 0	1	
R50042	ERJ3RED750V	1/16W 75	1	
R50043	ERJ3RBD273V	1/16W 27K	1	
R50044-47	ERJ3GEY0R00V	1/16W 0	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R50048	ERJ3RBD182V	1/16W 1.8K	1	
R50049	ERJ3RBD223	1/16W 22K	1	
R50050	ERJ3GEYJ220V	1/16W 22	1	
R50052	ERJ3GEY0R00V	1/16W 0	1	
R50053-55	ERJ3GEYJ470V	1/16W 47	3	
R50058	ERJ3GEYJ220V	1/16W 22	1	
R50060	ERJ3GEY0R00V	1/16W 0	1	
R50080	ERJ3GEYJ470V	1/16W 47	1	
R50082	ERJ3GEY0R00V	1/16W 0	1	
R50083	ERJ3RED220	1/16W 22	1	
R50084	ERJ3GEY0R00V	1/16W 0	1	
R50086	ERJ3GEY0R00V	1/16W 0	1	
RA3401-12	D1H82204A024	RESISTOR-RESISTOR	12	
RA3435,36	D1H82204A024	RESISTOR-RESISTOR	2	
RX3201-04	D1H82204A024	RESISTOR-RESISTOR	4	
RX3205-08	D1H83304A024	RESISTOR-RESISTOR	4	
RX3209,10	D1H82204A024	RESISTOR-RESISTOR	2	
RX3214-16	D1H82204A024	RESISTOR-RESISTOR	3	
RX3501-07	D1H82204A024	RESISTOR-RESISTOR	7	
RX3508-23	D1H83304A024	RESISTOR-RESISTOR	16	
RX3524	D1H84734A024	RESISTOR-RESISTOR	1	
RX3525	D1H81034A024	RESISTOR-RESISTOR	1	
RX3526-29	D1H83304A024	RESISTOR-RESISTOR	4	
RX3530-33	D1H82204A024	RESISTOR-RESISTOR	4	
RX3534-38	D1H81034A024	RESISTOR-RESISTOR	5	
RX3650,51	D1H8R0040009	RESISTOR-RESISTOR	2	
RX6001,02	D1H83334A024	RESISTOR-RESISTOR	2	
RX6003-05	D1H83324A024	RESISTOR-RESISTOR	3	
RX6006	D1H81034A024	RESISTOR-RESISTOR	1	
RX6007,08	D1H83304A024	RESISTOR-RESISTOR	2	
RX6009-12	D1H84704A024	RESISTOR-RESISTOR	4	
RX6013-17	D1H83304A024	RESISTOR-RESISTOR	5	
RX6018	D1H82204A024	RESISTOR-RESISTOR	1	
RX6019	D1H83304A024	RESISTOR-RESISTOR	1	
RX6020	D1H84704A024	RESISTOR-RESISTOR	1	
RX6021	D1H83304A024	RESISTOR-RESISTOR	1	
RX6022	D1H84704A024	RESISTOR-RESISTOR	1	
RX6025	D1H83304A024	RESISTOR-RESISTOR	1	
RX6026	D1H84704A024	RESISTOR-RESISTOR	1	
RX6027	D1H81034A024	RESISTOR-RESISTOR	1	
RX6030-33	D1H84704A024	RESISTOR-RESISTOR	4	
RX6034-48	D1H83304A024	RESISTOR-RESISTOR	15	
RX6701,02	D1H83324A024	RESISTOR-RESISTOR	2	
RX6703	D1H81034A024	RESISTOR-RESISTOR	1	
RX6704	D1H84724A024	RESISTOR-RESISTOR	1	
RX6705	D1H81034A024	RESISTOR-RESISTOR	1	
RX6706-13	D1H84704A024	RESISTOR-RESISTOR	8	
RX6714	D1H81034A024	RESISTOR-RESISTOR	1	
RX6715-19	D1H84704A024	RESISTOR-RESISTOR	5	
RX6720	D1H81034A024	RESISTOR-RESISTOR	1	
RX6721-28	D1H84704A024	RESISTOR-RESISTOR	8	
RX6729	D1H83334A024	RESISTOR-RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RX6730	D1H84704A024	RESISTOR-RESISTOR	1	
RX6731	D1H82224A024	RESISTOR-RESISTOR	1	
RX6732	D1H84704A024	RESISTOR-RESISTOR	1	
RX6733	D1H83334A024	RESISTOR-RESISTOR	1	
RX6735-38	D1H84704A024	RESISTOR-RESISTOR	4	
RX6739,40	D1H83334A024	RESISTOR-RESISTOR	2	
RX6741-44	D1H83324A024	RESISTOR-RESISTOR	4	
RX6745	D1H83334A024	RESISTOR-RESISTOR	1	
RX6746	D1H81034A024	RESISTOR-RESISTOR	1	
RX6747	D1H83324A024	RESISTOR-RESISTOR	1	
RX6748,49	D1H84724A024	RESISTOR-RESISTOR	2	
RX37001-05	D1H81034A024	RESISTOR-RESISTOR	5	
RX37006-14	D1H82204A024	RESISTOR-RESISTOR	9	
RX37015-18	D1H81034A024	RESISTOR-RESISTOR	4	
RX50001,02	D1H82204A024	RESISTOR-RESISTOR	2	
RX50009-16	D1H82204A024	RESISTOR-RESISTOR	8	
RX50017	D1H81034A024	RESISTOR-RESISTOR	1	
RX50018-25	D1H82204A024	RESISTOR-RESISTOR	8	
RX50026-29	D1H84704A024	RESISTOR-RESISTOR	4	
T37001	J0JBD0000043	TRANSFORMER	1	⚠
X3202	H0J540500006	CRYSTAL OSCILLATOR	1	
X6001	H2D330500001	CRYSTAL OSCILLATOR	1	
X37001	H0J245500020	CRYSTAL OSCILLATOR	1	H0J245500025
~	11	REP3528CB		
C7001	ECJ1VF1A105Z	10V 1U	1	
C7003	ECJ1VF1C104Z	16V 0.1U	1	
C7004	ECJ1VB1H103K	50V 0.01U	1	
C7005,06	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J
C7009,10	ECJ1VC1H470J	50V 47P	2	
D7001	LNJ201LPQJA	LED	1	
IR7001	PNA4618M13VT	REMOTE SENSOR	1	
JK7001	K1U413A00005	JACK,AV IN	1	
K7002	ERJ3GEY0R00V	1/16W 0	1	
LB7001-05	VLP0323A601T	COIL	5	J0JCC0000103
P7001	K1KA20B00132	CONNECTOR(20P)	1	
QR7001	UN2214	TRANSISTOR	1	UNR2214
R7001	ERDS2FJ391	1/4W 390	1	
R7002	ERJ3GEYJ102V	1/16W 1K	1	
R7008-10	ERJ3GEYJ750	1/16W 75	3	
R7011	ERDS2FJ330	1/4W 33	1	
S7003	EVQ11G07K	SWITCH,POWER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
~	12	REP3528AA		
D7801	B3ABA0000396	DIODE	1	
P7801	K1KA10B00196	CONNECTOR(10P)	1	
QR7801	UN2214	TRANSISTOR	1	UNR2214
R7801	ERJ3RBD122V	1/16W 1.2K	1	
R7802	ERJ3RBD152V	1/16W 1.5K	1	
R7803	ERJ3RBD222V	1/16W 2.2K	1	
R7804	ERJ3RBD332	1/16W 3.3K	1	
R7807	ERJ3RBD122V	1/16W 1.2K	1	
R7808	ERJ3RBD152V	1/16W 1.5K	1	
R7809	ERJ3RBD222V	1/16W 2.2K	1	
R7810	ERJ3RBD332	1/16W 3.3K	1	
R7811	ERJ3RBD562V	1/16W 5.6K	1	
R7812	ERJ3RBD113V	1/16W 11K	1	
R7813	ERJ3RBD333V	1/16W 33K	1	
R7814	ERJ3RBD122V	1/16W 1.2K	1	
R7821	ERDS2FJ221	1/4W 220	1	
S7801	K0L1BA000056	SWITCH,TRAY	1	
S7802	EVQ11G07K	SWITCH,REC	1	
S7803	EVQ11G07K	SWITCH,CH-DOWN	1	
S7804	EVQ11G07K	SWITCH,SKIP-R	1	
S7805	EVQ11G07K	SWITCH,STOP	1	
S7808	EVQ11G07K	SWITCH,CH-UP	1	
S7809	EVQ11G07K	SWITCH,MODE	1	
S7810	EVQ11G07K	SWITCH,ERASE	1	
S7811	EVQ11G07K	SWITCH,TIME WARP	1	
S7812	EVQ11G07K	SWITCH,PLAY	1	
S7813	EVQ11G07K	SWITCH,TIMER-REC	1	
S7814	EVQ11G07K	SWITCH,EXT-LINK	1	
S7815	EVQ11G07K	SWITCH,SKIP-F	1	
S7816	EVQ11G07K	SWITCH,OPEN/CLOSE	1	
~	13	REP3533A		
C3901	ECJ1VB1H103K	50V 0.01U	1	
C3902	ECEA0JKS470	6.3V 47U	1	
C3903	ECEA1AKS221	10V 220U	1	
C3904	ECEA1CKS220	16V 22U	1	
C3905	ECEA1AKS221	10V 220U	1	
C3906	ECEA1CKS220	16V 22U	1	
C3907	ECEA1AKS221	10V 220U	1	
C3908	ECEA1CKS220	16V 22U	1	
C3909	ECEA0JKS470	6.3V 47U	1	
C3910,11	ECA1CAK100XB	16V 10U	2	
C3914-17	ECA1HAK010XI	50V 1U	4	
C3918,19	ECA1CAK100XB	16V 10U	2	
C3920	ECJ1VB1C104K	16V 0.1U	1	
C3921	ECA0JAK331X	6.3V 330U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3922	ECJ1VB1H103K	50V 0.01U	1	
C3923	ECJ1VB1C104K	16V 0.1U	1	
C3924	ECA0JAK331X	6.3V 330U	1	
C3925	ECJ1VB1H103K	50V 0.01U	1	
C3928,29	ECA1HAK010XI	50V 1U	2	
C3930	ECJ1VB1H103K	50V 0.01U	1	
C3931,32	ECA1HAK010XI	50V 1U	2	
C3933	ECA1CAK101XB	16V 100U	1	
C3934	ECJ1VB1H103K	50V 0.01U	1	
C3935	ECA1CAK101XB	16V 100U	1	
C3938	ECJ1VF1C104Z	16V 0.1U	1	
C3939	ECJ1VB1H103K	50V 0.01U	1	
C3951,52	ECJ1VC1H470J	50V 47P	2	
C3953,54	ECUX1H471JCV	50V 470P	2	ECJ1VC1H471J
C3955,56	ECJ1VC1H101J	50V 100P	2	
C3957,58	ECUX1H471JCV	50V 470P	2	ECJ1VC1H471J
C3959,60	ECJ1VC1H470J	50V 47P	2	
C3961,62	ECJ1VC1H101J	50V 100P	2	
D3901	MA2C165001VT	DIODE	1	
D3903	MA3Z142D0RG	DIODE	1	
D3905,06	MAZ4051NMF	DIODE	2	
IC3901	C1AB00001776	IC	1	
IC3902	BA7660FS	IC	1	C9ZB00000282
JK3904,05	K1FB121A0003	JACK,AV1/AV2	2	
LB3901	J0JGC0000020	COIL	1	
LB3907,08	J0JGC0000020	COIL	2	
LB3911-13	J0JGC0000020	COIL	3	
LB3922,23	J0JGC0000020	COIL	2	
LB3925	J0JGC0000020	COIL	1	
PS3901	VJS3042F020W	CONNECTOR(20P)	1	K1KB20B00027
PS3902	VJS3042F012W	CONNECTOR(12P)	1	K1KB12B00030
PS3903	K1KB15B00013	CONNECTOR(15P)	1	
Q3901	2SD1819A0L	TRANSISTOR	1	
Q3905	2SD132800L	TRANSISTOR	1	
Q3906	2SB710A	TRANSISTOR	1	2SB0710A
Q3908	2SB1218A	TRANSISTOR	1	
Q3909,10	2SD132800L	TRANSISTOR	2	
QR3908	UN5212TX	TRANSISTOR	1	UNR521200L
QR3909	UN5211	TRANSISTOR	1	UNR5211
QR3913	UN5212TX	TRANSISTOR	1	UNR521200L
QR3914,15	UN2215	TRANSISTOR	2	UNR2215
R3901	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3902	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R3903	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3904	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3905	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002

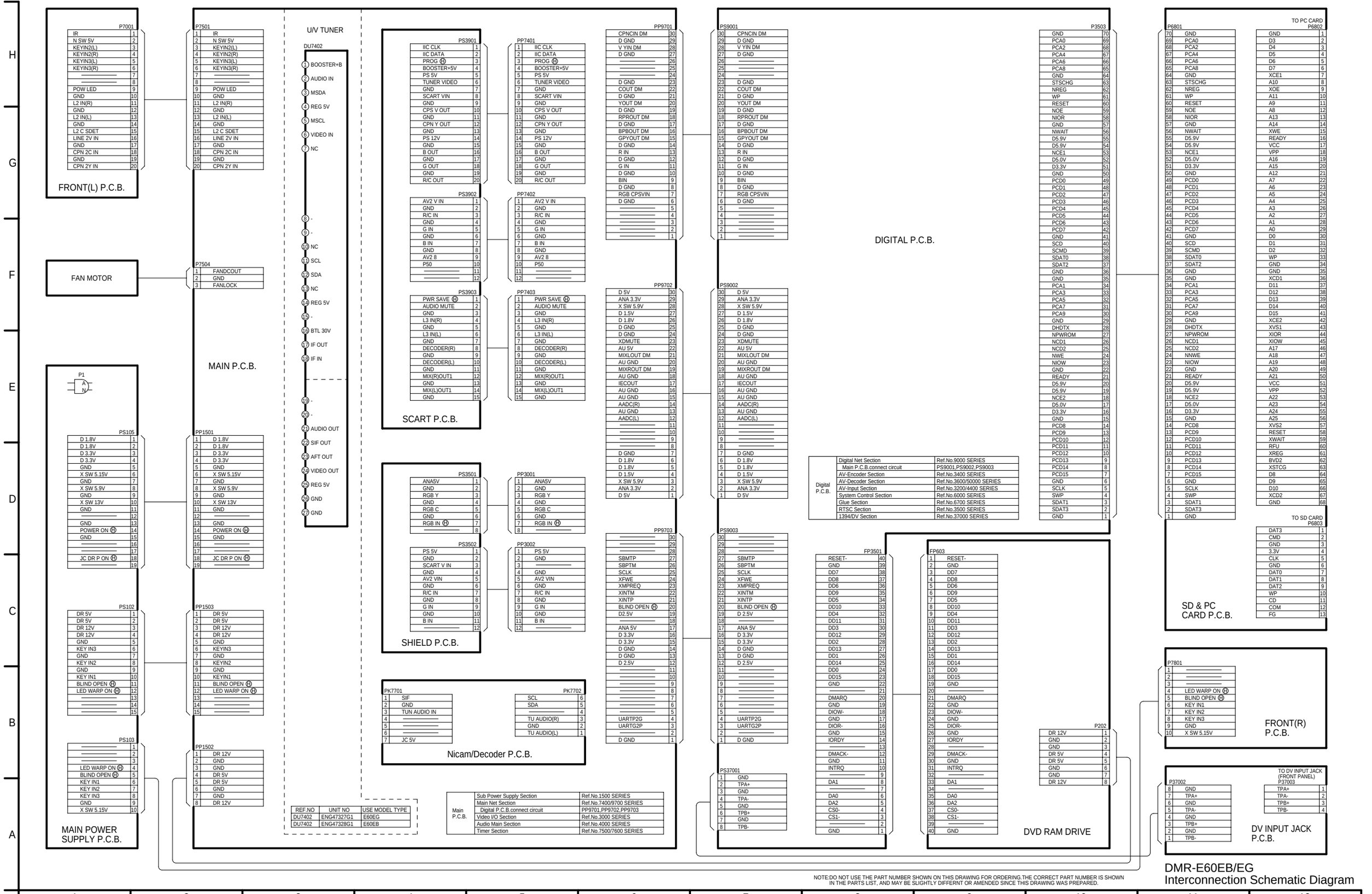
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3906	ERJ3GEYJ102V	1/16W 1K	1	
R3907	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002
R3908,09	ERJ6GEYJ471V	1/10W 470	2	
R3910	ERJ3RBD151	1/16W 150	1	
R3911,12	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R3913	ERJ3EKF1800	1/16W 180	1	
R3914	ERJ3RBD151	1/16W 150	1	
R3919	ERJ3RBD151	1/16W 150	1	
R3921	ERJ6ENF75R0	1/10W 75	1	
R3922,23	ERJ6GEYJ471V	1/10W 470	2	
R3924	ERDS2FJ471	1/4W 470	1	
R3925-28	ERJ6ENF75R0	1/10W 75	4	
R3929,30	ERJ6GEYJ471V	1/10W 470	2	
R3931-33	ERJ3RED750V	1/16W 75	3	
R3934,35	ERJ6ENF75R0	1/10W 75	2	
R3962	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3967	ERJ3GEYJ152V	1/16W 1.5K	1	
R3968	ERJ3GEYJ680	1/16W 68	1	ERJ3GEYJ680V
R3969	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3972,73	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3975,76	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R3977,78	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3979,80	ERJ6GEYJ471V	1/10W 470	2	
R3981,82	ERJ3GEYJ821V	1/16W 820	2	
R3983,84	ERJ3GEYJ104	1/16W 100K	2	
R3985	ERJ3RBD472V	1/16W 4.7K	1	
R3986	ERJ3RBD122V	1/16W 1.2K	1	
R3987	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3988,89	ERJ3GEYJ102V	1/16W 1K	2	
R3990,91	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R3992,93	ERJ3GEYJ102V	1/16W 1K	2	
R3994	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
ZA3901-04	VMC1450	EARTH PLATE	4	
~	14	REP3540BA		
C3901	ECJ1VB1H103K	50V 0.01U	1	
C3902	ECEA0JKS470	6.3V 47U	1	
C3903	ECEA1AKS221	10V 220U	1	
C3904	ECEA1CKS220	16V 22U	1	
C3905	ECEA1AKS221	10V 220U	1	
C3906	ECEA1CKS220	16V 22U	1	
C3907	ECEA1AKS221	10V 220U	1	
C3908	ECEA1CKS220	16V 22U	1	
C3909	ECEA0JKS470	6.3V 47U	1	
C3910,11	ECA1CAK100XB	16V 10U	2	
C3914-17	ECA1HAK010XI	50V 1U	4	
C3918,19	ECA1CAK100XB	16V 10U	2	
C3920	ECJ1VB1C104K	16V 0.1U	1	
C3921	ECA0JAK331X	6.3V 330U	1	
C3922	ECJ1VB1H103K	50V 0.01U	1	
C3923	ECJ1VB1C104K	16V 0.1U	1	
C3924	ECA0JAK331X	6.3V 330U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3925	ECJ1VB1H103K	50V 0.01U	1	
C3928,29	ECA1HAK010XI	50V 1U	2	
C3930	ECJ1VB1H103K	50V 0.01U	1	
C3931,32	ECA1HAK010XI	50V 1U	2	
C3933	ECA1CAK101XB	16V 100U	1	
C3934	ECJ1VB1H103K	50V 0.01U	1	
C3935	ECA1CAK101XB	16V 100U	1	
C3938	ECJ1VF1C104Z	16V 0.1U	1	
C3939	ECJ1VB1H103K	50V 0.01U	1	
C3951,52	ECJ1VC1H470J	50V 47P	2	
C3953,54	ECUX1H471JCV	50V 470P	2	ECJ1VC1H471J
C3955,56	ECJ1VC1H101J	50V 100P	2	
C3957,58	ECUX1H471JCV	50V 470P	2	ECJ1VC1H471J
C3959,60	ECJ1VC1H470J	50V 47P	2	
C3961,62	ECJ1VC1H101J	50V 100P	2	
C6801	ECJ1VB1C104K	16V 0.1U	1	
C6803-06	ECJ1VB1C104K	16V 0.1U	4	
C6808-10	ECJ1VB1C104K	16V 0.1U	3	
C6811,12	ECJ1VB1H103K	50V 0.01U	2	
C6813	EEE1CA470SP	16V 47U	1	
C6814	EEE0JA101SP	6.3V 100U	1	
C6815	ECJ1VB1H103K	50V 0.01U	1	
C6816	ECJ1VB1C104K	16V 0.1U	1	
D3901	MA2C165001VT	DIODE	1	
D3903	MA3Z142D0RG	DIODE	1	
D3905,06	MAZ4051NMF	DIODE	2	
FL6801-08	F1H0J1050018	FILTER	8	
IC3901	C1AB00001776	IC	1	
IC3902	BA7660FS	IC	1	C9ZB00000282
IC6801	TC7W32FUTL	IC	1	C0JBAE000098
IC6802	C0JBAZ001166	IC	1	
IC6803	C0JBAZ001959	IC	1	
IC6804	C0JBAZ001988	IC	1	
IC6805	C0JBAZ001859	IC	1	
IC6806	C0JBAZ000608	IC	1	
IC6807	C0DBCHG00003	IC	1	
IC6809	C0EBJ0000153	IC	1	
IC6810	C0JBAZ001859	IC	1	
JK3904,05	K1FB121A0003	JACK,AV1/AV2	2	
K6801	ERJ3GEY0R00V	1/16W 0	1	
LB3901	J0JGC0000020	COIL	1	
LB3907,08	J0JGC0000020	COIL	2	
LB3911-13	J0JGC0000020	COIL	3	
LB3922,23	J0JGC0000020	COIL	2	
LB3925	J0JGC0000020	COIL	1	
LB6801	J0JHC0000032	COIL	1	
LB6802,03	J0JHC0000045	COIL	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P6801	K1KB70A00036	CONNECTOR(70P)	1	
P6802	K1NA68E00065	CONNECTOR(68P)	1	
P6803	K1NA09E00027	CONNECTOR(9P)	1	
PS3901	VJS3042F020W	CONNECTOR(20P)	1	K1KB20B00027
PS3902	VJS3042F012W	CONNECTOR(12P)	1	K1KB12B00030
PS3903	K1KB15B00013	CONNECTOR(15P)	1	
Q3901	2SD1819A0L	TRANSISTOR	1	
Q3905	2SD132800L	TRANSISTOR	1	
Q3906	2SB710A	TRANSISTOR	1	2SB0710A
Q3908	2SB1218A	TRANSISTOR	1	
Q3909,10	2SD132800L	TRANSISTOR	2	
Q6801	UN5213TX	TRANSISTOR	1	UNR521300L
QR3908	UN5212TX	TRANSISTOR	1	UNR521200L
QR3909	UN5211	TRANSISTOR	1	UNR5211
QR3913	UN5212TX	TRANSISTOR	1	UNR521200L
QR3914,15	UN2215	TRANSISTOR	2	UNR2215
QR6801	UN5211	TRANSISTOR	1	UNR5211
R3901	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3902	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R3903	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3904	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3905	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3906	ERJ3GEYJ102V	1/16W 1K	1	
R3907	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002
R3908,09	ERJ6GEYJ471V	1/10W 470	2	
R3910	ERJ3RBD151	1/16W 150	1	
R3911,12	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R3913	ERJ3EKF1800	1/16W 180	1	
R3914	ERJ3RBD151	1/16W 150	1	
R3919	ERJ3RBD151	1/16W 150	1	
R3921	ERJ6ENF75R0	1/10W 75	1	
R3922,23	ERJ6GEYJ471V	1/10W 470	2	
R3924	ERDS2FJ471	1/4W 470	1	
R3925-28	ERJ6ENF75R0	1/10W 75	4	
R3929,30	ERJ6GEYJ471V	1/10W 470	2	
R3931-33	ERJ3RED750V	1/16W 75	3	
R3934,35	ERJ6ENF75R0	1/10W 75	2	
R3962	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3967	ERJ3GEYJ152V	1/16W 1.5K	1	
R3968	ERJ3GEYJ680	1/16W 68	1	ERJ3GEYJ680V
R3969	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3972,73	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3975,76	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R3977,78	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3979,80	ERJ6GEYJ471V	1/10W 470	2	
R3981,82	ERJ3GEYJ821V	1/16W 820	2	
R3983,84	ERJ3GEYJ104	1/16W 100K	2	
R3985	ERJ3RBD472V	1/16W 4.7K	1	
R3986	ERJ3RBD122V	1/16W 1.2K	1	
R3987	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3988,89	ERJ3GEYJ102V	1/16W 1K	2	
R3990,91	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R3992,93	ERJ3GEYJ102V	1/16W 1K	2	
R3994	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6801,02	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6803	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6804,05	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R6806	ERJ3GEYJ104	1/16W 100K	1	
R6807	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6808	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R6809	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6810,11	ERJ3GEYJ220V	1/16W 22	2	
R6812,13	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R6814	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6815-18	ERJ3GEYJ223V	1/16W 22K	4	D0GB223JA002
R6819	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6820-27	ERJ3GEYJ223V	1/16W 22K	8	D0GB223JA002
R6828	ERJ3GEYJ123V	1/16W 12K	1	
RX6801-12	D1H83304A024	RESISTOR-RESISTOR	12	
RX6813	D1H82204A024	RESISTOR-RESISTOR	1	
RX6814-17	D1H84734A024	RESISTOR-RESISTOR	4	
RX6818	D1H81234A024	RESISTOR-RESISTOR	1	
ZA3901-04	VMC1450	EARTH PLATE	4	
~	15	REP3540AB		
P37002	K1KA08B00213	CONNECTOR(8P)	1	
P37003	K2HZ104B0010	CONNECTOR(104P)	1	
~	17	JIG TOOLS		
	RFKZ0110	EXTENSION CABLE (19P)	1	MAIN-POWER SUPPLY P.C.B.
	RFKZ0125	EXTENSION CABLE (40P)	1	RAM DRIVE-DIGITAL P.C.B.
	RFKZ0164	EXTENSION CABLE (30P~3)	1	MAIN-DIGITAL P.C.B.
	RFKZ0165	EXTENSION CABLE (20P)	1	FRONT(L)-MAIN P.C.B.
	RFKZ0166	EXTENSION CABLE (10P)	1	FRONT(R-POWER SUPPLY P.C.B.
	RFKZ0168	EXTENSION CABLE (3P)	1	FAN MOTOR
	RFKZ0171	EXTENSION CABLE (15P)	1	MAIN-POWER SUPPLY P.C.B.
	RFKZ0181	EXTENSION CABLE (70P)	1	DIGITAL-SD & PC CARD P.C.B.

18. Schematic Diagram for Printing with A4 size


FRONT(L) P.C.B.
FAN MOTOR
MAIN P.C.B.
MAIN POWER SUPPLY P.C.B.
U/V TUNER
SCART P.C.B.
SHIELD P.C.B.
Nicam/Decoder P.C.B.
DIGITAL P.C.B.
DVD RAM DRIVE
SD & PC CARD P.C.B.
FRONT(R) P.C.B.
DV INPUT JACK P.C.B.
TO PC CARD
TO SD CARD
TO DV INPUT JACK (FRONT PANEL)
Digital P.C.B.
Main P.C.B.
Digital Net Section
Main P.C.B.connect circuit
AV-Encoder Section
AV-Decoder Section
AV-Input Section
System Control Section
Glue Section
RTSC Section
1394/DV Section
Ref.No.9000 SERIES
PS9001,PS9002,PS9003
Ref.No.3400 SERIES
Ref.No.3600/50000 SERIES
Ref.No.3200/4400 SERIES
Ref.No.6000 SERIES
Ref.No.6700 SERIES
Ref.No.3500 SERIES
Ref.No.37000 SERIES
Sub Power Supply Section
Main Net Section
Main P.C.B.connect circuit
Video I/O Section
Audio Main Section
Timer Section
Ref.No.1500 SERIES
Ref.No.7400/9700 SERIES
PP9701,PP9702,PP9703
Ref.No.3000 SERIES
Ref.No.4000 SERIES
Ref.No.7500/7600 SERIES
REF.NO DU7402 DU7402
UNIT NO ENG47327G1 ENG47328G1
USE MODEL TYPE E60EG E60EB
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E60EB/EG
Interconnection Schematic Diagram

P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)

IC7401
C0DBZJG00005
(REG.PS +12V)
VIN ON(H) VOUT NC GND

X SW 13V
X SW 5.9V
AV2 8
WIDE H
AV2 PB H
D 5V
D 1.8V
ANA 3.3V
D 1.5V
D 3.3V

C7401 16V470
C7439 0.1
R7403 3900
R7402 10K
R7401 10K
R7404 4700
R7405 470
D7401 MA2C165001VT
D7403 MA2C165001VT
QR7404 UNR511400L (SWITCH)
Q7401 2SD1819AWL (SWITCH)
C7402 0.01
R7407 10K
R7406 22K
R7408 15K
QR7402 UNR521300L (WIDE(H):ON)
QR7403 UNR521300L (SWITCH)
QR7401 UNR521300L (PWR SAVE(H):ON)
QR7405 UNR521300L (AV2 PB(H):ON)

IC7402
C0DBCHD00002
(REG.BOOSTER+5V)
VOUT GND NR VIN GND ON(H)
C7403 6V47
C7405 0.1

IC7403
C0DBCHD00002
(REG.PS+5V)
VOUT GND NR VIN GND ON(H)
C7404 6V47
C7406 0.1
C7407 0.01

TO PS9002
DIGITAL P.C.B.
(DIGITAL NET SEC.)
PP9702

D 5V	30
ANA 3.3V	29
X SW 5.9V	28
D 1.5V	27
D 1.8V	26
D GND	25
D GND	24
XDMUTE	23
AU 5V	22
MIXLOUT DM	21
AU GND	20
MIXROUT DM	19
AU GND	18
IECOUT	17
AU GND	16
AU GND	15
AADC(R)	14
AU GND	13
AADC(L)	12
	11
	10
	9
	8
D GND	7
D 1.8V	6
D 1.8V	5
D 1.5V	4
X SW 5.9V	3
ANA 3.3V	2
D5V	1

LB9704
ERJ3GEY0R00V
C9936 220P
C9935 220P

XDMUTE A
AU 5V A
MIXLOUT DM A
AUGND A V
MIXROUT DM A
IECOUT A
AADC(R) A
AADC(L) A
GND P

TO PS9003
DIGITAL P.C.B.
(DIGITAL NET SEC.)
PP9703

	30
	29
	28
SBMTP	27
SBPTM	26
SCLK	25
XFWE	24
XMPREQ	23
XINTM	22
XINTP	21
BLIND OPEN H	20
D 2.5V	19
	18
ANA 5V	17
D 3.3V	16
D 3.3V	15
D GND	14
D GND	13
D 2.5V	12
	11
	10
	9
	8
	7
	6
	5
UARTP2G	4
UARTG2P	3
	2
D GND	1

SBMTP T
SBPTM T
SCLK T
XFWE T
XMPREQ T
XINTM T
XINTP T
BLIND OPEN H P
ANA 5V P
D2.5V P
UARTP2G T
UARTG2P T

ZJ7401 K9ZZ00000424
ZJ7402 K9ZZ00000424
ZJ7403 K9ZZ00000424
ZJ7404 K9ZZ00000424

GPYOUT DM V
BPBOUT DM V
RPROUT DM V
YOUT DM V
COUT DM V
V YIN DM V
CPNCIN DM V

TO PS9001
DIGITAL P.C.B.
(DIGITAL NET SEC.)
PP9701

1	
2	
3	
4	
5	
6	D GND
7	RGB CPSVIN
8	D GND
9	B IN
10	D GND
11	G IN
12	D GND
13	R IN
14	D GND
15	GPYOUT DM
16	BPBOUT DM
17	D GND
18	RPROUT DM
19	D GND
20	YOUT DM
21	D GND
22	COUT DM
23	D GND
24	
25	
26	
27	D GND
28	V YIN DM
29	D GND
30	CPNCIN DM

DMR-E60EB/EG
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)

DU7402
(E60EG:ENG47327G1)
(E60EB:ENG47328G1)

BOOSTER+B (1) | AUDIO IN (2) | MSDA (3) | REG5V (4) | MSCL (5) | VIDEO IN (6) | NC (7) | (8) | (9) | NC (10) | SCL (11) | SDA (12) | NC (13) | REG5V (14) | (15) | BTL 30V (16) | IF OUT (17) | IF IN (18) | (19) | (20) | AUDIO OUT (21) | SIF OUT (22) | AFT OUT (23) | VIDEO OUT (24) | REG5V (25) | GND (26) | GND (27)

C7417 6V47 | C7428 0.01 | LB7402 J0JHC0000032 | C7413 6V47 | C7422 0.01 | LB7403 J0JHC0000032 | C7410 0.01 | C7409 0.01

(E60EG Only) C7423 ERJ3GEY0R00V

(E60EB Only) L7402 G0C270JA019 | R7410 10

C7418 33P | R7415 470 | R7416 470 | C7419 33P | LB7404 J0JHC0000032 | C7420 0.1 | C7424 6V47

D7402 MAZ4300NMF | C7421 0.01 | C7414 50V1 | R7417 470 | R7411 470

TL7401 | AFC (T)

R7420 150 | LB7405 J0JHC0000032 | C7415 6V47 | C7426 0.1

L7403 G0C2R2JA0019

NICAM/DECODER PACK VEP07A51A

PK7701
1 SIF
2 GND
3 TU AUDO IN
4 ———
5 ———
6 ———
7 JC 5V

LB7406 J0JHC0000032 | C7408 0.1 | R7412 680 | C7416 6V47 | C7427 2200P

PK7702
1 SCL
2 SDA
3 ———
4 TU AUDIO(R)
5 GND
6 TU AUDIO(L)

Q7402 2SB1218A0L (AMP) | R7419 150

TUNER(L) (A)
TUNER(R) (A)

(A) (B)

(T) UNREG 38V
(P) JC REG 5V

(E60EB Only) LB7401 J0JCC0000120 | R7409 270 | QR7406 UNR211500L | QR7407 UNR221500L | C7429 (E60EB:3300P) (E60EG:0.1)

(A) RFC A OUT
(T) RFC A MUTE

(E60EB Only) R7423 5600

R7414 100 | R7413 100

(V)(T) IIC CLK
(V)(T) IIC DATA

R7421 100 | R7422 100

(T) PROG (H)
(V) CPS V OUT

(V) R/C OUT
(V) G OUT
(V) B OUT
(V) CPN Y OUT
(V) SCART VIN
(V) PS 5V

TO PS3901
SCART P.C.B.
PP7401
20 R/C OUT
19 GND
18 G OUT
17 GND
16 B OUT
15 GND
14 PS 12V
13 GND
12 CPN Y OUT
11 GND
10 CPS V OUT
9 GND
8 SCART V IN
7 GND
6 TUNER VIDEO
5 PS 5V
4 BOOSTER+5V
3 PROG (H)
2 IIC DATA
1 IIC CLK

(C) (D) (E) (F) (G) (H) (I)

Q7405 2SD601A0L (AMP) | R7431 33K | C7432 6V47 | R7430 1K | R7432 22K

Q7406 2SD601A0L (AMP) | R7434 33K | C7433 6V47 | R7433 1K | R7435 22K

C7441 0.1 | C7440 6V47 | LB7407 J0JHC0000032

Q7403 2SD601A0L (AMP) | R7425 33K | C7430 6V47 | R7424 1K | R7426 22K

Q7404 2SD601A0L (AMP) | R7428 33K | C7431 6V47 | R7427 1K | R7429 22K

(T) P50
(V) B IN
(V) G IN
(V) R/C IN
(V) AV2 V IN

TO PS3902
SCART P.C.B.
PP7402
12 ———
11 ———
10 P50
9 AV2 8
8 GND
7 B IN
6 GND
5 G IN
4 GND
3 R/C IN
2 GND
1 AV2 V IN

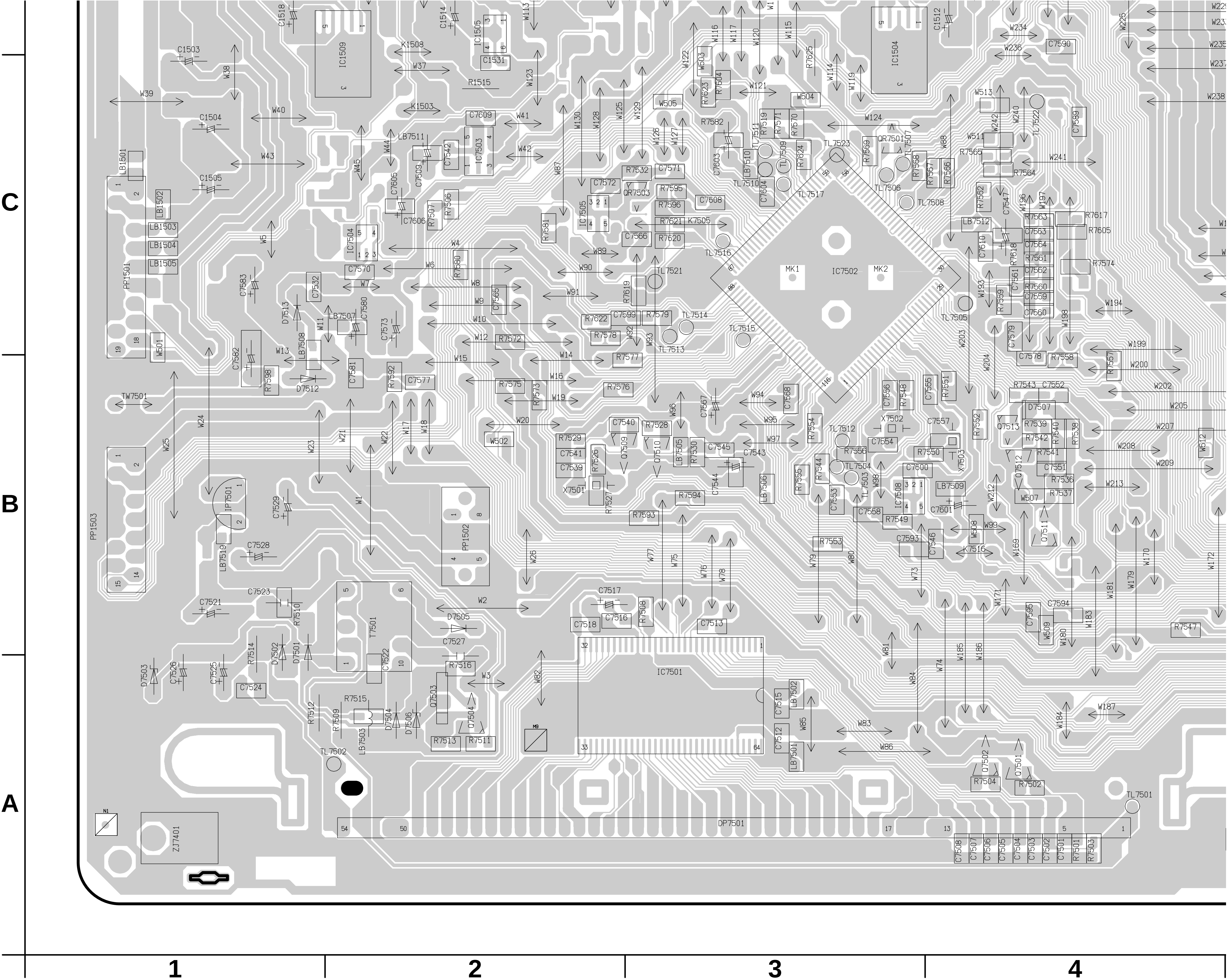
(A) MIX(L) OUT1
(A) MIX(R) OUT1
(A) DECODER(L)
(A) DECODER(R)
(A) L3 IN(L)
(A) L3 IN(R)
(A) AUDIO MUTE
(T) PWR SAVE (H)

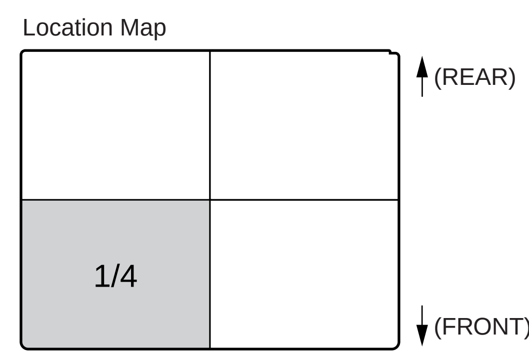
TO PS3903
SCART P.C.B.
PP7403
15 GND
14 MIX(L) OUT1
13 GND
12 MIX(R) OUT1
11 GND
10 DECODER(L)
9 GND
8 DECODER(R)
7 GND
6 L3 IN(L)
5 GND
4 L3 IN(R)
3 GND
2 AUDIO MUTE
1 PWR SAVE (H)

DMR-E60EB/EG
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

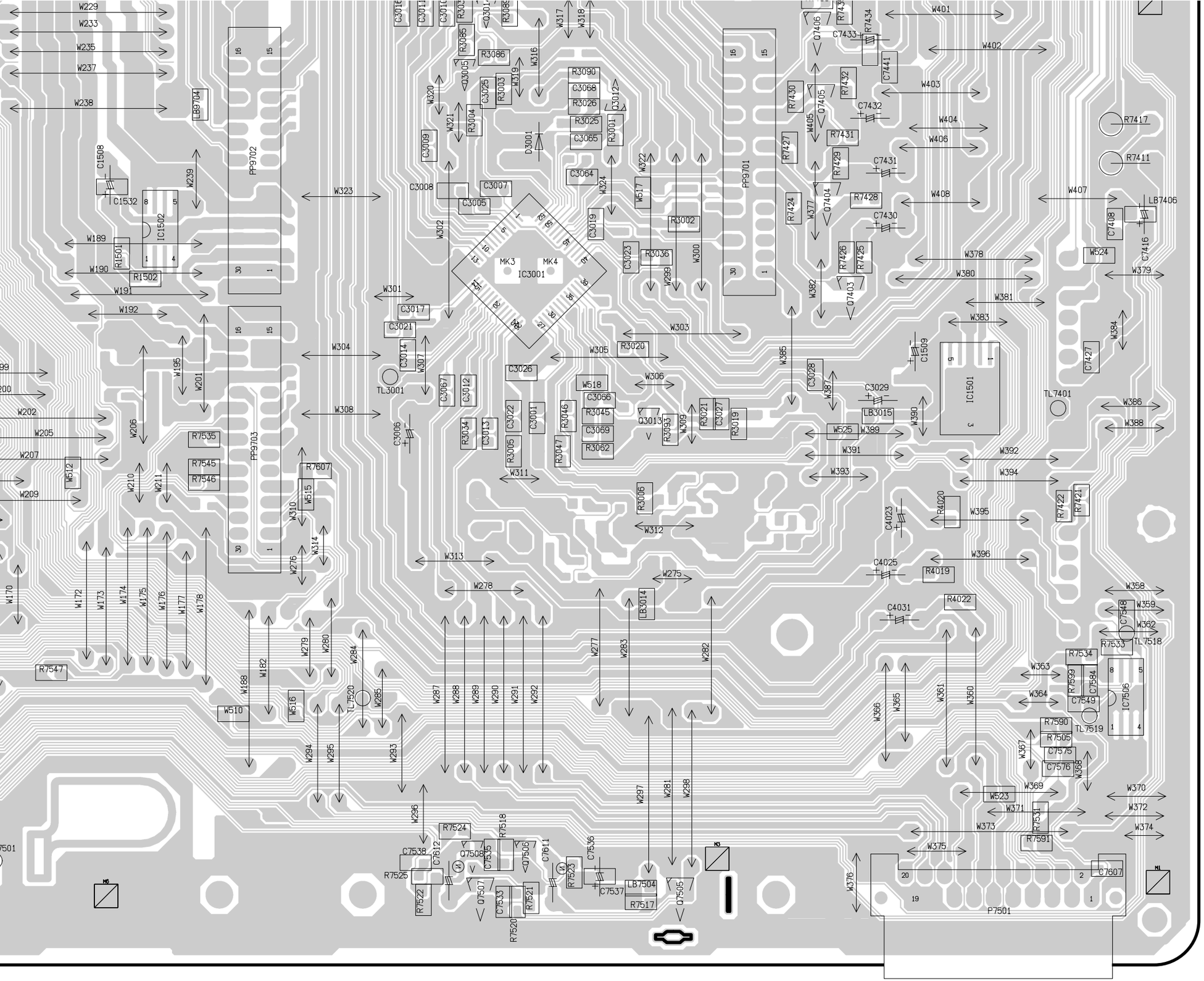
DMR-E60EB/EG
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

(J) 12 13 14 15 16 17 18 19 20 21 22



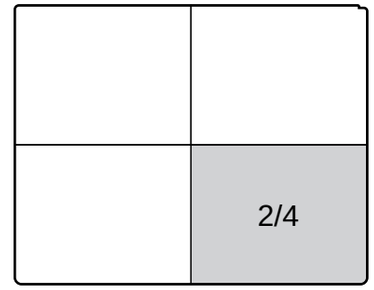


Main P.C.B. (1/4 Section)
DMR-E60EB (REP3532D)
DMR-E60EG (REP3532C)



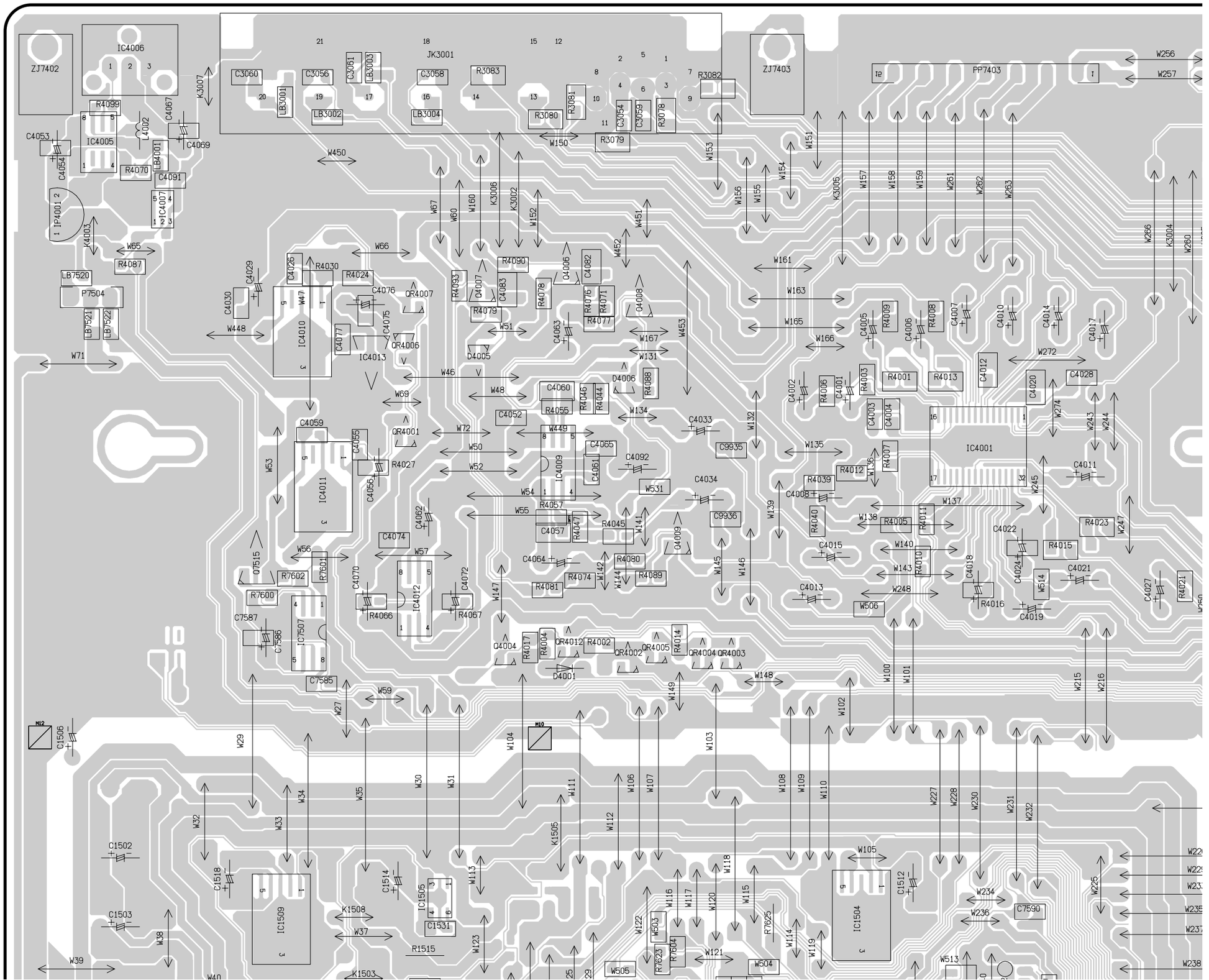
5	6	7	8

Location Map

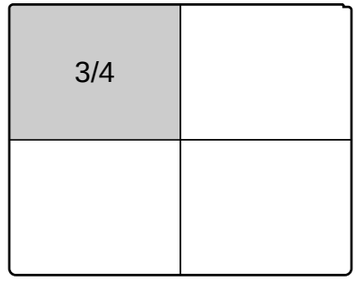


Main P.C.B. (2/4 Section)
DMR-E60EB (REP3532D)
DMR-E60EG (REP3532C)

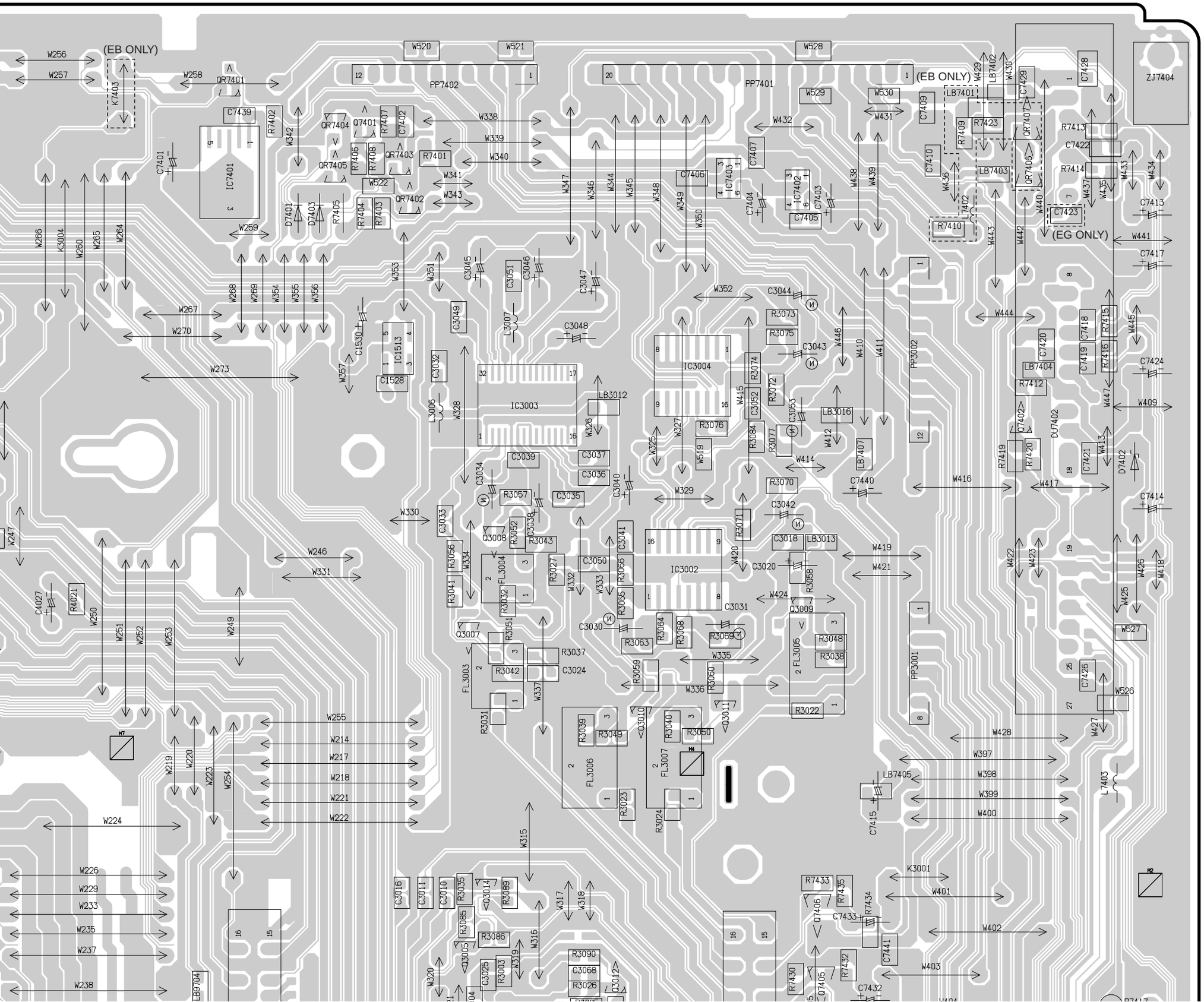
MAIN P.C.B.



Location Map



Main P.C.B. (3/4 Section)
DMR-E60EB (REP3532D)
DMR-E60EG (REP3532C)


(EB ONLY)
(EB ONLY)
(EG ONLY)
PP7402
PP7401
IC7401
IC1513
IC3004
IC3003
IC3002
IC7403
IC7402
PP3002
PP3001
K7403
K3004
K3001
ZJ7404
LB7401
LB7402
LB7403
LB7404
LB7405
LB3012
LB3013
LB3016
LB7407
DU7402
L7403
L7402
L3006
L3007
FL3004
FL3003
FL3005
FL3006
FL3007
M7
M4
M2
W256
W257
W258
W259
W260
W264
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W266
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W273
W338
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W246
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W255
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W251
W252
W253
W249
C7401
C7402
C7403
C7404
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C7409
C7410
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C7426
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C7429
C7439
C7440
C7441
C7432
C7433
C7418
C7419
C7420
C7421
R7401
R7402
R7403
R7404
R7405
R7406
R7407
R7408
R7409
R7410
R7412
R7413
R7414
R7415
R7416
R7419
R7420
R7423
R7430
R7432
R7433
R7434
R7435
D7401
D7403
D7402
Q7401
Q7402
Q7403
Q7404
Q7405
Q7406
Q7407
QR7401
QR7402
QR7403
QR7404
QR7405
QR7406
QR7407
C1530
C1528
C3032
C3033
C3034
C3035
C3036
C3037
C3039
C3040
C3041
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C3044
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C3048
C3049
C3050
C3051
C3052
C3053
C3018
C3020
C3024
C3030
C3031
C3042
R3022
R3023
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R3064
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R3066
R3068
R3069
R3070
R3071
R3072
R3073
R3074
R3075
R3076
R3077
R3084
R4021
C4027
Q3007
Q3008
Q3009
Q3010
Q3011
Q3012
Q3014
Q3005
C3025
R3003
C3026
C3068
R3090
R3085
R3086
R3089
C3016
C3011
C3010
R3035
R7435
R7433
R7434
R7430
R7432
Location Map
4/4
(REAR)
(FRONT)
Main P.C.B. (4/4 Section)
DMR-E60EB (REP3532D)
DMR-E60EG (REP3532C)

MAIN P.C.B.

Integrated Circuit	
IC1501	B-7
IC1502	C-5
IC1504	D-3
IC1505	D-2
IC1509	C-2
IC1513	E-5
IC3001	C-6
IC3002	E-6
IC3003	E-6
IC3004	E-6
IC4001	E-4
IC4005	F-1
IC4006	F-1
IC4007	F-1
IC4009	E-2
IC4010	E-2
IC4011	E-2
IC4012	E-2
IC4013	E-2
IC7401	F-5
IC7402	F-7
IC7403	F-6
IC7501	A-3
IC7502	C-3
IC7503	C-2
IC7504	C-2
IC7505	C-2
IC7506	B-8
IC7507	D-2
IC7508	B-3

Transistor	
Q3005	C-6
Q3007	D-6
Q3008	E-6
Q3009	E-7
Q3010	D-6
Q3011	D-6
Q3012	C-6
Q3013	B-6
Q3014	D-6
Q4004	D-2
Q4006	F-2
Q4007	F-2
Q4008	E-3
Q4009	E-3
Q7401	F-5
Q7402	E-7
Q7403	C-7
Q7404	C-7
Q7405	C-7
Q7406	D-7
Q7501	A-4
Q7502	A-4
Q7503	A-2
Q7504	A-2
Q7505	A-6
Q7506	A-6
Q7507	A-6
Q7508	A-6
Q7509	B-3
Q7510	B-3
Q7511	B-4
Q7512	B-4
Q7513	B-4
Q7515	E-2

Transistor-resistor	
QR4001	E-2
QR4002	D-3
QR4003	D-3
QR4004	D-3
QR4005	D-3
QR4006	E-2
QR4007	E-2
QR4012	D-2
QR7401	F-5
QR7402	F-5
QR7403	F-5
QR7404	F-5
QR7405	F-5
QR7406	F-7
QR7407	F-7
QR7501	C-3
QR7503	C-3

Test Point	
TL3001	C-5
TL7401	B-7
TL7501	A-4
TL7502	A-2
TL7503	B-3
TL7504	B-3
TL7505	C-4
TL7506	C-3
TL7507	C-3
TL7508	C-3
TL7509	C-3
TL7510	C-3
TL7511	C-3
TL7512	B-3
TL7513	C-3
TL7514	C-3
TL7515	C-3
TL7516	C-3
TL7517	C-3
TL7518	B-8
TL7519	A-8
TL7520	B-5
TL7521	C-3
TL7522	C-4
TL7523	C-3
TW7501	B-1

Connector	
JK3001	F-2
P7501	A-7
P7504	E-1
PP1501	C-1
PP1502	B-2
PP1503	B-1
PP3001	D-7
PP3002	E-7
PP7401	F-7
PP7402	F-6
PP7403	F-4
PP9701	C-7
PP9702	C-5
PP9703	B-5

Diode	
D3001	C-6
D4001	D-2
D4005	E-2
D4006	E-3
D7401	F-5
D7402	E-8
D7403	F-5
D7501	B-1
D7502	B-1
D7503	A-1
D7504	A-2
D7505	B-2
D7506	A-2
D7507	B-4
D7512	B-1
D7513	C-1

Crystal Osillator	
X7501	B-2
X7502	B-3
X7503	B-4

IC Protector	
IP4001	F-1
IP7501	B-1

Coil	
L3006	E-6
L3007	E-6
L4002	F-1
L7402	F-7
L7403	D-8
LB1501	C-1
LB1502	C-1
LB1503	C-1
LB1504	C-1
LB1505	C-1
LB3001	F-2
LB3002	F-2
LB3003	F-2
LB3004	F-2
LB3012	E-6
LB3013	E-7
LB3014	B-6
LB3015	B-7
LB3016	E-7
LB4001	F-1
LB7401	F-7
LB7402	F-7
LB7403	F-7
LB7404	E-7
LB7405	D-7
LB7406	C-8
LB7407	E-7
LB7501	A-3
LB7502	A-3
LB7503	A-2
LB7504	A-6
LB7505	B-3
LB7506	B-3
LB7507	C-2
LB7508	B-1
LB7509	B-4
LB7510	C-3
LB7511	C-2
LB7512	C-4
LB7519	B-1
LB7520	F-1
LB7521	E-1
LB7522	E-1
LB9704	C-5

Filter	
FL3003	D-6
FL3004	E-6
FL3005	D-7
FL3006	D-6
FL3007	D-6

Capacitor	
C1502	D-1
C1503	C-1
C1504	C-1
C1505	C-1
C1506	D-1
C1508	C-5
C1509	C-7
C1512	D-4
C1514	D-2
C1518	D-1
C1528	E-5
C1530	E-5
C1531	C-2
C1532	C-5
C3001	B-6
C3005	C-6
C3006	B-5
C3007	C-6
C3008	C-6
C3009	C-6
C3010	D-6
C3011	D-6
C3012	B-6
C3013	B-6
C3014	C-5
C3016	D-5
C3017	C-6
C3018	E-7
C3019	C-6
C3020	E-7
C3021	C-5
C3022	B-6
C3023	C-6
C3024	D-6
C3025	C-6
C3026	C-6
C3027	B-6
C3028	C-7
C3029	B-7
C3030	D-6
C3031	D-6
C3032	E-6
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C3034	E-6
C3035	E-6
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C3038	E-6
C3039	E-6
C3040	E-6
C3041	E-6
C3042	E-7
C3043	E-7
C3044	F-7
C3045	F-6
C3046	F-6
C3047	F-6
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C3049	E-6
C3050	E-6
C3051	F-6
C3052	E-7
C3053	E-7
C3054	F-3
C3056	F-2
C3058	F-2
C3059	F-3
C3060	F-1
C3061	F-2
C3064	C-6
C3065	C-6
C3066	B-6
C3067	B-6
C3068	C-6
C3069	B-6
C4001	E-3
C4002	E-3
C4003	E-3
C4004	E-4
C4005	E-3
C4006	E-4
C4007	E-4
C4008	E-3
C4010	E-4
C4011	E-4
C4012	E-4
C4013	E-3
C4014	E-4
C4015	E-3
C4017	E-4
C4018	E-4
C4019	D-4
C4020	E-4
C4021	E-4
C4022	E-4
C4023	B-7
C4024	E-4
C4025	B-7
C4026	F-2
C4027	E-4
C4028	E-4
C4029	F-1
C4030	E-1
C4031	B-7
C4033	E-3
C4034	E-3
C4052	E-2
C4053	F-1
C4054	F-1
C4055	E-2
C4056	E-2
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C4077	E-2
C4082	F-3
C4083	F-2
C4091	F-1
C4092	E-3
C7401	F-5
C7402	F-5
C7403	F-7
C7404	F-7
C7405	F-7
C7406	F-6
C7407	F-7
C7408	C-8
C7409	F-7
C7410	F-7
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C7432	C-7
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C7439	F-5
C7440	E-7
C7441	C-7
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C7502	A-4
C7503	A-4
C7504	A-4
C7505	A-4
C7506	A-4
C7507	A-4
C7508	A-4
C7509	C-2
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C7515	A-3
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C7517	B-2
C7518	B-2
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C7523	B-1
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C7529	B-1
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C7535	A-6
C7536	A-6
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C7538	A-6
C7539	B-2
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C7554	B-3
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C7583	C-1
C7584	B-8
C7585	D-2
C7586	D-2
C7587	D-2
C7589	C-4
C7590	D-4
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C7595	B-4
C7599	C-3
C7600	B-3
C7601	B-4
C7603	C-3
C7604	C-3
C7605	C-2
C7606	C-2
C7607	A-8
C7608	C-3
C7609	C-2
C7610	C-4
C7611	A-6
C7612	A-6
C9935	E-3
C9936	E-3

Resistor	
R1501	C-5
R1502	C-5
R1515	C-2
R3001	C-6
R3002	C-6
R3003	C-6
R3004	C-6
R3005	B-6
R3006	B-6
R3019	B-7
R3020	C-6
R3021	B-6
R3022	D-7
R3023	D-6
R3024	D-6
R3025	C-6
R3026	C-6
R3027	E-6
R3031	D-6
R3032	E-6
R3034	B-6
R3035	D-6
R3036	C-6
R3037	D-6
R3038	D-7
R3039	D-6
R3040	D-6
R3041	E-6
R3042	D-6
R3043	E-6
R3045	B-6
R3046	B-6
R3047	B-6
R3048	D-7
R3049	D-6
R3050	D-6
R3051	D-6
R3052	E-6
R3056	E-6
R3057	E-6
R3058	E-7
R3059	D-6
R3060	D-6
R3062	B-6
R3063	D-6
R3064	D-6
R3065	E-6
R3066	E-6
R3068	D-6
R3069	D-6
R3070	E-7
R3071	E-7
R3072	E-7
R3073	E-7
R3074	E-7
R3075	E-7
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R3077	E-7
R3078	F-3
R3079	F-3
R3080	F-2
R3081	F-3
R3082	F-3
R3083	F-2
R3084	E-7
R3085	D-6
R3086	C-6
R3089	D-6
R3090	C-6
R3093	B-6
R4001	E-4
R4002	D-3
R4003	E-3
R4004	D-2
R4005	E-4
R4006	E-3
R4007	E-4
R4008	E-4
R4009	E-4
R4010	E-4
R4011	E-4
R4012	E-3
R4013	E-4
R4014	D-3
R4015	E-4
R4016	E-4
R4017	D-2
R4019	B-7
R4020	B-7
R4021	E-4
R4022	B-7
R4023	E-4
R4024	F-2
R4027	E-2
R4030	F-2
R4039	E-3
R4040	E-3
R4044	E-3
R4045	E-3
R4046	E-3
R4047	E-3
R4055	E-2
R4057	E-2
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R4067	E-2
R4070	F-1
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R4074	E-3
R4076	E-3
R4077	E-3
R4078	E-2
R4079	E-2
R4080	E-3
R4081	E-2
R4087	F-1
R4088	E-3
R4089	E-3
R4090	F-2
R4093	F-2
R4099	F-1
R7401	F-6
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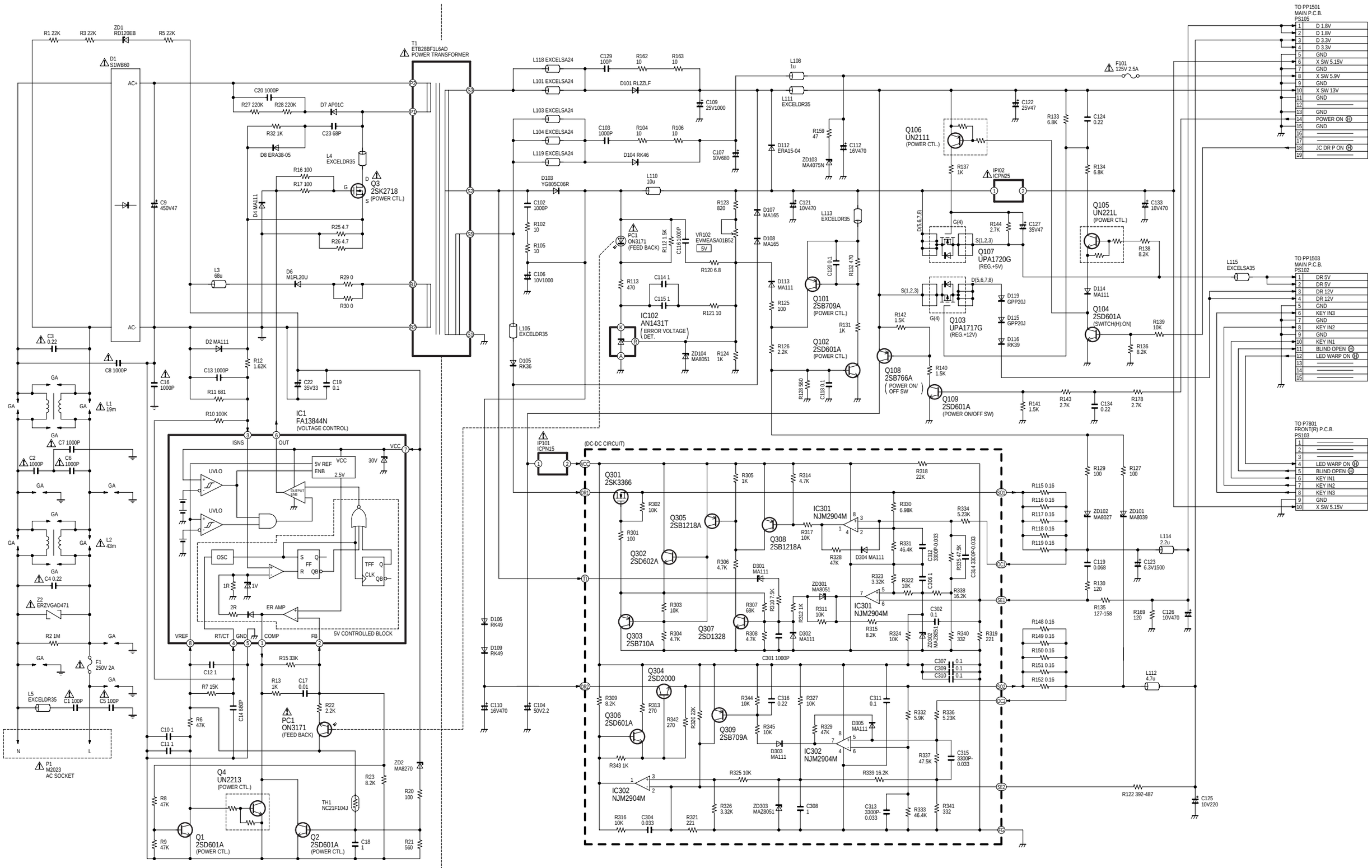
R7403	F-5
R7404	F-5
R7405	F-5
R7406	F-5
R7407	F-5
R7408	F-5
R7409	F-7
R7410	F-7
R7411	C-8
R7412	E-7
R7413	F-8
R7414	F-8
R7415	E-8
R7416	E-8
R7417	C-8
R7419	E-7
R7420	E-7
R7421	B-8
R7422	B-8
R7423	F-7
R7424	C-7
R7425	C-7
R7426	C-7
R7427	C-7
R7428	C-7
R7429	C-7
R7430	C-7
R7431	C-7
R7432	C-7
R7433	D-7
R7434	D-7
R7435	D-7
R7501	A-4
R7502	A-4
R7503	A-4
R7504	A-4
R7505	A-8
R7506	C-2
R7507	C-2
R7508	B-3
R7509	A-2
R7510	B-1
R7511	A-2
R7512	A-1
R7513	A-2
R7514	B-1
R7515	A-2
R7516	A-2
R7517	A-6
R7518	A-6
R7519	C-3
R7520	A-6
R7521	A-6
R7522	A-6
R7523	A-6
R7524	A-6
R7525	A-6
R7526	B-2
R7527	B-2
R7528	B-3
R7529	B-2
R7530	B-3
R7531	A-7
R7532	C-3
R7533	B-8
R7534	B-8
R7535	B-5
R7536	B-4
R7537	B-4
R7538	B-4
R7539	B-4
R7540	B-4
R7541	B-4
R7542	B-4
R7543	B-4
R7544	B-3
R7545	B-5
R7546	B-5
R7547	B-4
R7548	B-3
R7549	B-3
R7550	B-4
R7551	B-4
R7552	B-4
R7553	B-3
R7554	B-3
R7555	B-3
R7556	B-3
R7557	B-4
R7558	B-4
R7559	C-4
R7560	C-4
R7561	C-4
R7562	C-4
R7563	C-4
R7564	C-4
R7565	C-4
R7566	C-4
R7567	C-4
R7568	C-3
R7569	C-3
R7570	C-3
R7571	C-3
R7572	C-2
R7573	B-2
R7574	C-4
R7575	B-2
R7576	B-2
R7577	B-3
R7578	C-2
R7579	C-3
R7580	C-2
R7581	C-2
R7582	C-3
R7590	A-8
R7591	A-7
R7592	B-2
R7593	B-3
R7594	B-3
R7595	C-3
R7596	C-3
R7598	B-1
R7599	B-8
R7600	E-2
R7601	E-2
R7602	E-2
R7604	C-3
R7605	C-4
R7607	B-5
R7617	C-4
R7618	C-4
R7619	C-3
R7620	C-3
R7621	C-3
R7622	C-2
R7623	C-3
R7624	C-3
R7625	C-3

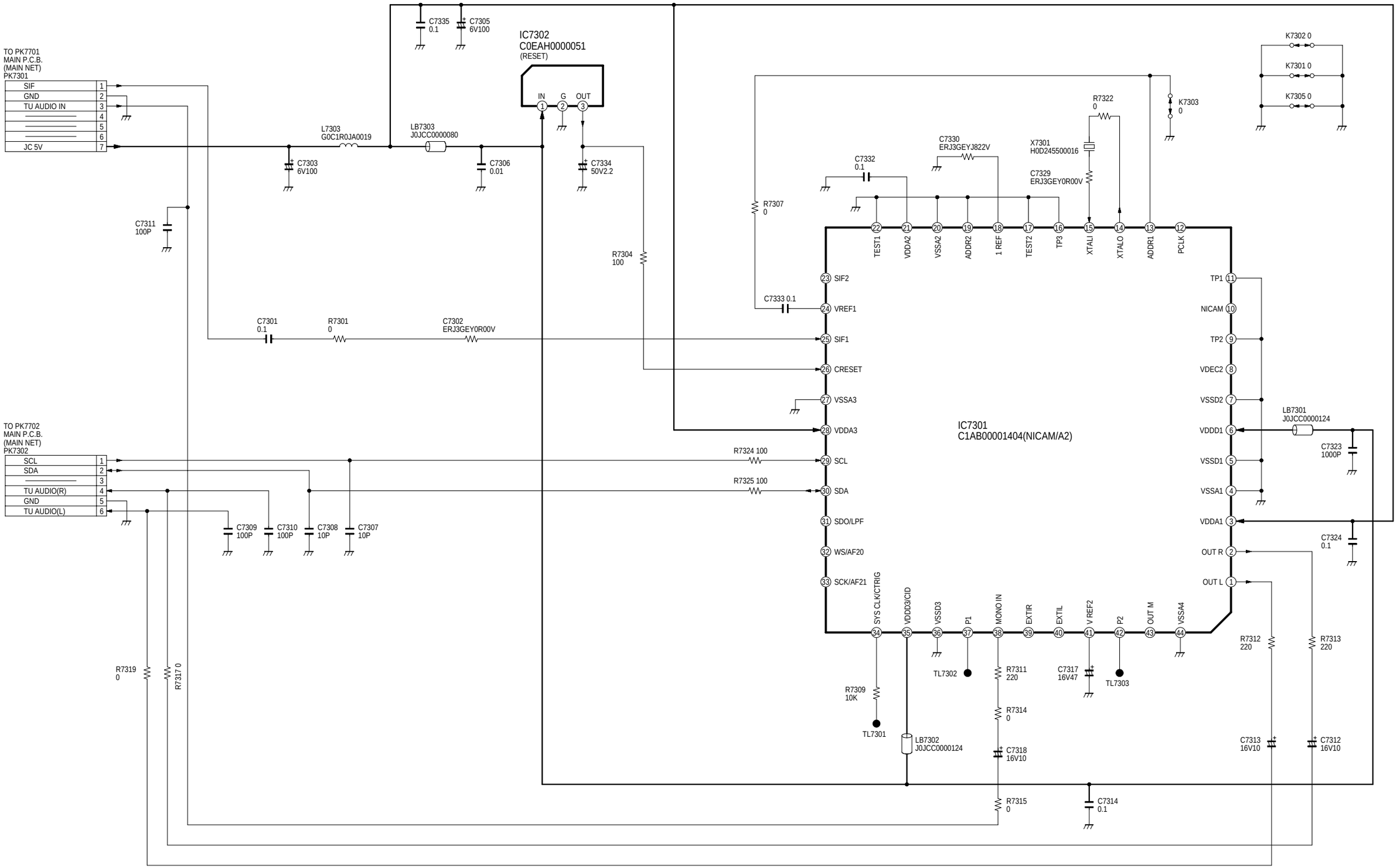
Transformer	
T7501	B-2



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

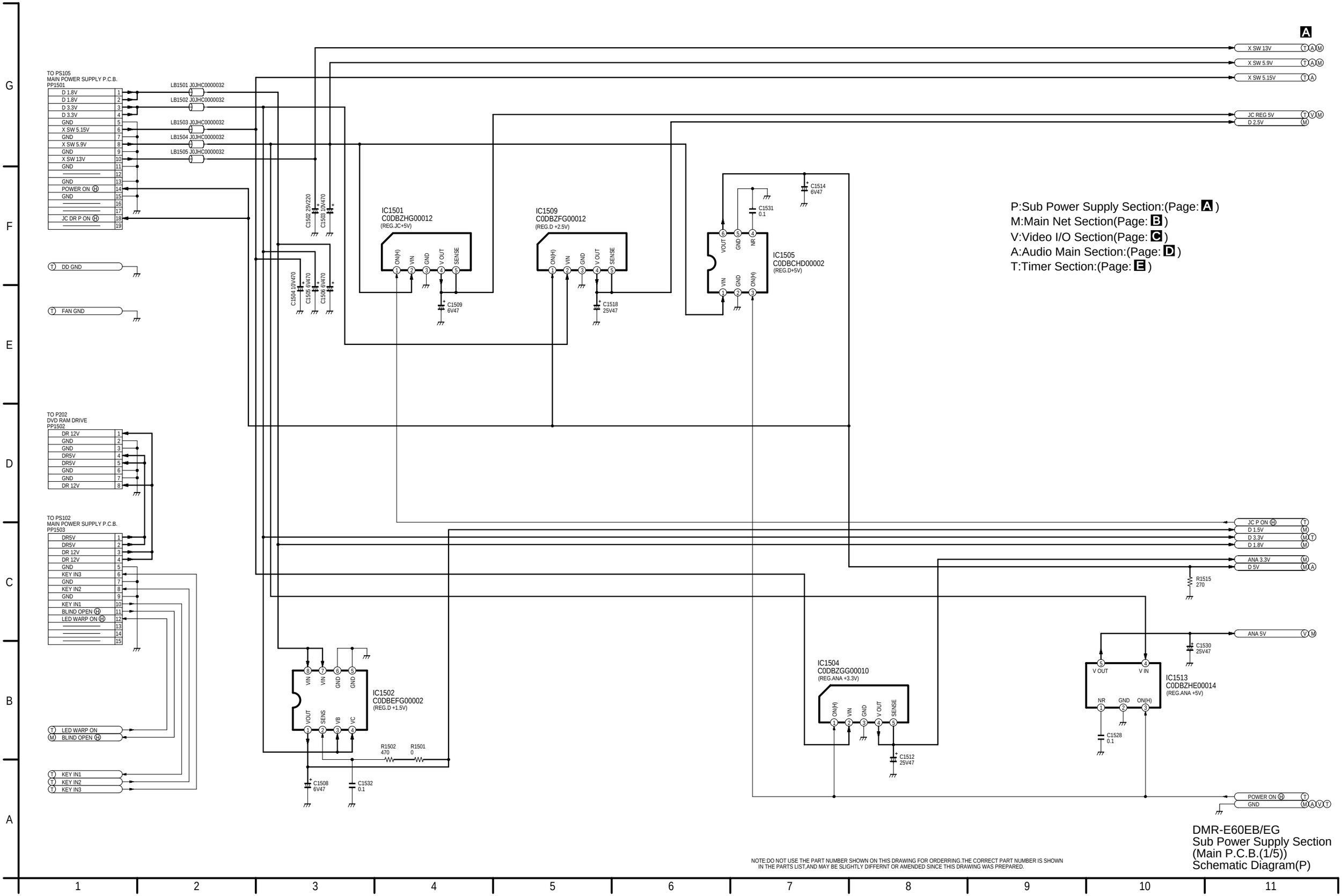
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Main Power Supply Schematic Diagram



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

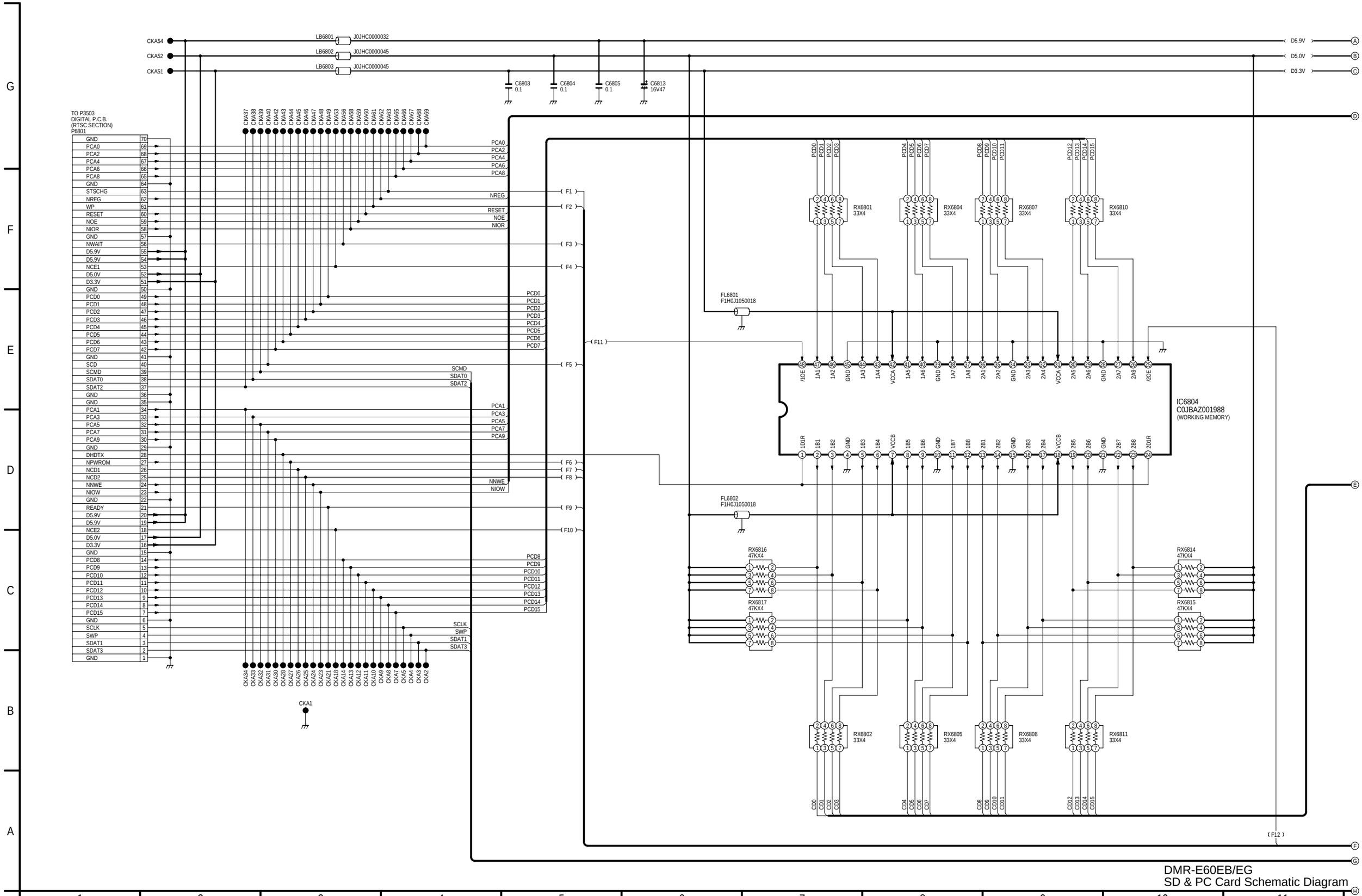
DMR-E60EB/EG
Nicam/Decoder Schematic Diagram



P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Sub Power Supply Section
(Main P.C.B.(1/5))
Schematic Diagram(P)


CKA54
CKA52
CKA51
LB6801 J0JHC0000032
LB6802 J0JHC0000045
LB6803 J0JHC0000045
C6803 0.1
C6804 0.1
C6805 0.1
C6813 16V47
D5.9V
D5.0V
D3.3V
TO P3503
DIGITAL P.C.B.
(RTSC SECTION)
P6801
GND 70
PCA0 69
PCA2 68
PCA4 67
PCA6 66
PCA8 65
GND 64
STSCHG 63
NREG 62
WP 61
RESET 60
NOE 59
NIOR 58
GND 57
NWAIT 56
D5.9V 55
D5.9V 54
NCE1 53
D5.0V 52
D3.3V 51
GND 50
PCD0 49
PCD1 48
PCD2 47
PCD3 46
PCD4 45
PCD5 44
PCD6 43
PCD7 42
GND 41
SCD 40
SCMD 39
SDAT0 38
SDAT2 37
GND 36
GND 35
PCA1 34
PCA3 33
PCA5 32
PCA7 31
PCA9 30
GND 29
DHDTX 28
NPWROM 27
NCD1 26
NCD2 25
NNWE 24
NIOW 23
GND 22
READY 21
D5.9V 20
D5.9V 19
NCE2 18
D5.0V 17
D3.3V 16
GND 15
PCD8 14
PCD9 13
PCD10 12
PCD11 11
PCD12 10
PCD13 9
PCD14 8
PCD15 7
GND 6
SCLK 5
SWP 4
SDAT1 3
SDAT3 2
GND 1
CKA37 CKA38 CKA39 CKA40 CKA42 CKA43 CKA44 CKA45 CKA46 CKA47 CKA48 CKA49 CKA53 CKA56 CKA58 CKA59 CKA60 CKA61 CKA62 CKA63 CKA65 CKA66 CKA67 CKA68 CKA69
CKA34 CKA33 CKA32 CKA31 CKA30 CKA28 CKA27 CKA26 CKA25 CKA24 CKA23 CKA21 CKA18 CKA14 CKA13 CKA12 CKA11 CKA10 CKA9 CKA8 CKA7 CKA5 CKA4 CKA3 CKA2
CKA1
F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12
NREG RESET NOE NIOR NNWE NIOW SCMD SDAT0 SDAT2 SCLK SWP SDAT1 SDAT3
PCA0 PCA2 PCA4 PCA6 PCA8 PCA1 PCA3 PCA5 PCA7 PCA9
PCD0 PCD1 PCD2 PCD3 PCD4 PCD5 PCD6 PCD7 PCD8 PCD9 PCD10 PCD11 PCD12 PCD13 PCD14 PCD15
FL6801 F1H0J1050018
FL6802 F1H0J1050018
RX6801 33X4
RX6804 33X4
RX6807 33X4
RX6810 33X4
RX6816 47KX4
RX6817 47KX4
RX6814 47KX4
RX6815 47KX4
RX6802 33X4
RX6805 33X4
RX6808 33X4
RX6811 33X4
IC6804
C0JBAZ001988
(WORKING MEMORY)
/1OE 1A1 1A2 GND 1A3 1A4 VCCA 1A5 1A6 GND 1A7 1A8 2A1 2A2 GND 2A3 2A4 VCCA 2A5 2A6 GND 2A7 2A9 /2OE
1D1R 1B1 1B2 GND 1B3 1B4 VCCB 1B5 1B6 GND 1B7 1B8 2B1 2B2 GND 2B3 2B4 VCCB 2B5 2B6 GND 2B7 2B8 2D1R
DMR-E60EB/EG
SD & PC Card Schematic Diagram

D5.9V
D5.0V
D3.3V

IC6807
C0DBCHG00003
(REG.DC +5V)
Vin ON/OFF Vout NC GND

K6801
ERJ3GEY0R00V

R6804 47K
R6805 47K
R6803 2200
QR6801
UNR521100L
(SWITCH)
C6814 6V100
C6810 0.1
R6809 2200

IC6809
C0EBJ0000153
Vout Vin GND

R6813 22K
R6807 47K
Q6801
UNR521300L
(SWITCH)
R6806 100K
C6809 0.1
R6814 10K
C6811 0.01

FL6804
F1H0J1050018
FL6805
F1H0J1050018
FL6803
F1H0J1050018

IC6803
C0JBAZ001959
(BUFFER)
X20E 1A1 1A2 GND 1A3 1A4 VCC 2A1 2A2 GND 2A3 2A4 3A1 3A2 GND 3A3 3A4 VCC 4A1 4A2 GND 4A3 4A4 X30E
X1OE 1Y1 1Y2 GND 1Y3 1Y4 VCC 2Y1 2Y2 GND 2Y3 2Y4 3Y1 3Y2 GND 3Y3 3Y4 VCC 4Y1 4Y2 GND 4Y3 4Y4 X4OE

RX6803 33X4
RX6806 33X4
RX6809 33X4
RX6812 33X4

PCA0 PCA1 PCA2 PCA3 PCA4 PCA5 PCA6 PCA7 PCA8 PCA9 NREG RESET NOE NWE NIOR NIOW
CA0 CA1 CA2 CA3 CA4 CA5 CA6 CA7 CA8 CA9 XREG PCRST XOE XWE XIOR XIOW
XCE2 XCE1

CKB16 CKB15 CKB12 CKB11 CKB9 CKB7 CKB6 CKB5 CKB4 CKB3 CKB2

TO PC CARD
P6802

1	GND
2	D3
3	D4
4	D5
5	D6
6	D7
7	XCE1
8	A10
9	XOE
10	A11
11	A9
12	A8
13	A13
14	A14
15	XWE
16	READY
17	VCC
18	VPP
19	A16
20	A15
21	A12
22	A7
23	A6
24	A5
25	A4
26	A3
27	A2
28	A1
29	A0
30	D0
31	D1
32	D2
33	WP
34	GND
35	GND
36	XCD1
37	D11
38	D12
39	D13
40	D14
41	D15
42	XCE2
43	XVS1
44	XIOR
45	XIOW
46	A17
47	A18
48	A19
49	A20
50	A21
51	VCC
52	VPP
53	A22
54	A23
55	A24
56	A25
57	XVS2
58	RESET
59	XWAIT
60	RFU
61	XREG
62	BVD2
63	XSTCG
64	D8
65	D9
66	D10
67	XCD2
68	GND

CD3 CD4 CD5 CD6 CD7 XCE1 XOE CA9 CA8 XWE CA7 CA6 CA5 CA4 CA3 CA2 CA1 CA0 CD0 CD1 CD2 CD11 CD12 CD13 CD14 CD15 XCE2 XIOR XIOW PCRST XREG CD8 CD9 CD10

R6821 22K
FL6806
F1H0J1050018
CKB17
(F15)
(F16)
R6822 22K
R6815 22K
CKB43 CKB33
FL6808
F1H0J1050018
CKB51
R6827 22K
R6826 22K
R6816 22K
(F14)
R6817 22K
R6818 22K
(F13)
R6820 22K
CKB1
CKB67 CKB66 CKB65 CKB64 CKB63 CKB62 CKB61 CKB60 CKB59 CKB58 CKB57
CKB32 CKB31 CKB30 CKB29 CKB28 CKB27 CKB26 CKB25 CKB24 CKB23 CKB22
CKB36 CKB37 CKB38 CKB39 CKB40 CKB41 CKB42 CKB44 CKB45

(F6)
(F11)
(F9) (F3) (F13)
(F14) (F16) (F15) (F2)
D3.3V
R6819 10K

R6801 33
C6801 0.1
C6806 0.1
R6824 22K
C6816 0.1
C6808 0.1
R6825 22K
C6812 0.01

IC6802
C0JBAZ001166
R6802 33
IC6801
C0JBAE000098
IC6805
C0JBAZ001859
IC6810
C0JBAZ001859
IC6806
C0JBAZ000608

(F10) (F4) (F12) (F1) (F7) (F5) (F8)

SDAT2 SDAT3 SCMD SDAT0 SCLK SDAT1 SWP

RX6813
22X4
R6828 12K
R6810 22
R6811 22
R6808 100
C6815 0.01
R6812 22K
R6823 22K
RX6818
12KX4

FL6807
F1H0J1050018

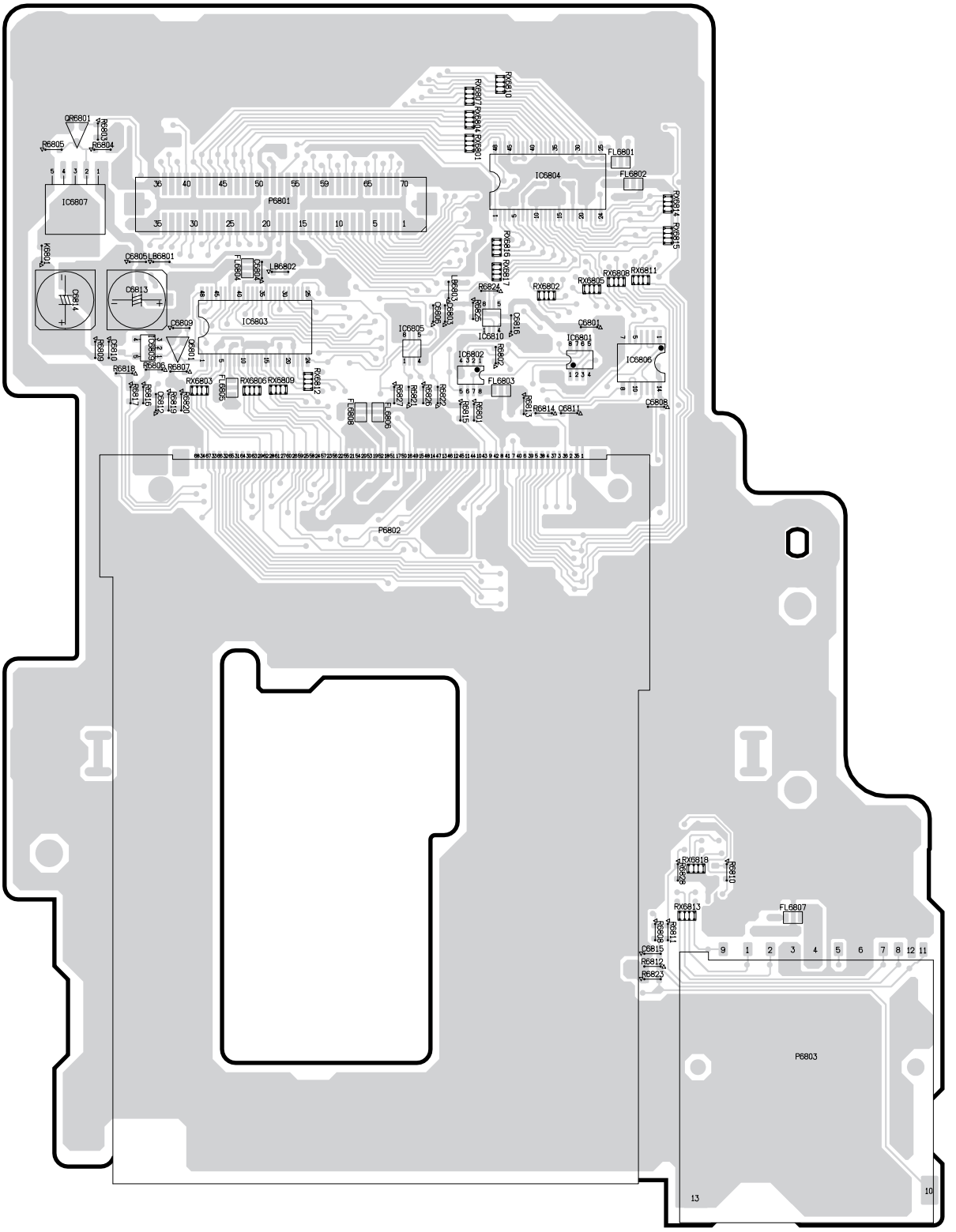
TO SD CARD
P6803

1	DAT3
2	CMD
3	GND
4	3.3V
5	CLK
6	GND
7	DAT0
8	DAT1
9	DAT2
10	WP
11	CD
12	COM
13	FG

DMR-E60EB/EG
SD & PC Card Schematic Diagram

12 13 14 15 16 17 18 19 20 21 22

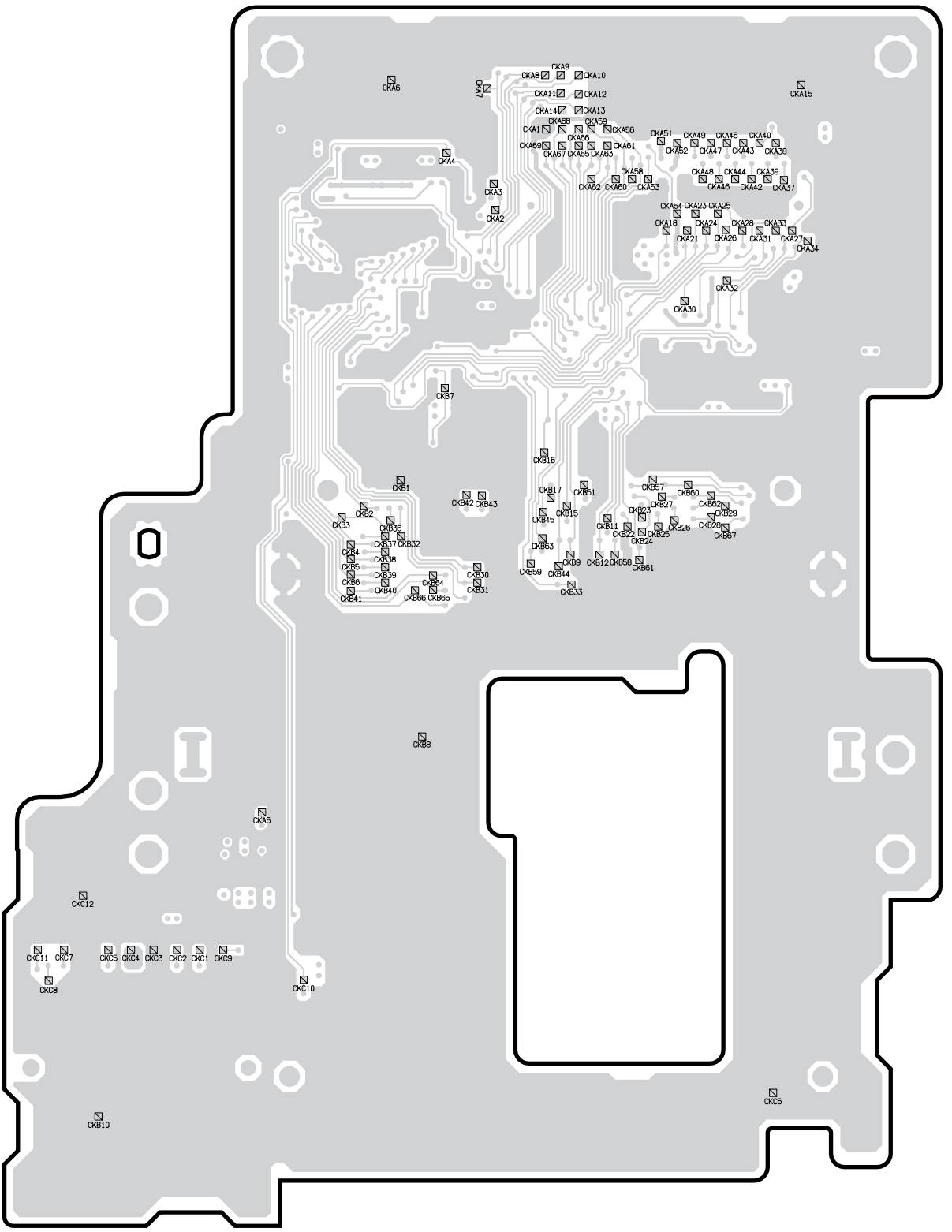
SD & PC CARD P.C.B. (1/2)



(COMPONENT SIDE)

DMR-E60EB/EG
SD & PC CARD P.C.B. (1/2)
(REP3540BA)

SD & PC CARD P.C.B. (2/2)



(FOIL SIDE)

DMR-E60EB/EG
SD & PC CARD P.C.B. (2/2)
(REP3540BA)

MAIN POWER SUPPLY P.C.B.

MAIN P.C.B.

AC SOCKET
P1

F1
250V2A

Z2
SURGE SUPPRESSOR AND SURGE ABSORBER

D1,C9
RECTIFIER

T1
POWER TRANSFORMER

P2
S3
S5
P1
S1
B1
B2
S2

DC-DC CONVERTER
T1
DR2
DR1
SO1
SO2
VCC

D+1.8V
PS105 1,2 PP1501 1,2 A

D+3.3V
PS105 3,4 PP1501 3,4 B

IP101
Q108,109

POWER ON H
PS105 14 PP1501 14 C

D

IC1
(CONSTANT VOLTAGE CTL.)
7 VCC
OUT 6
VREF 8

F101
125V 2.5A

X SW+5.9V
PS105 8 PP1501 8 E

IP102

X SW+5.15V
PS105 6 PP1501 6

Q103
REG.+12V
REG.DR+12V
(TO DVD RAM DRIVE)

Q105

PC1
PHOTO COUPLER

IC102
SHUNT REG.

X SW+13V
PS105 10 PP1501 10 F

Q107
REG.+5V
REG.DR+5V
(TO DVD RAM DRIVE)

Q104,Q106

JC DR P ON H
PS105 18 PP1501 18

HOT

COLD

DMR-E60EB/EG
Power Supply Block Diagram

DIGITAL P.C.B.

D+1.8V → IC1502 (REG.D+1.5V) VIN(7,8) VOUT(1) → REG.D+1.5V
D+3.3V → D+3.3V
POWER ON (H) → IC1509 (REG.D+2.5V) VIN(2) VOUT(4) ON(H)(1)
X SW+5.15V → X SW+5.15V(PSC 1)
IC1504 (REG.ANA+3.3V) VIN(2) VOUT(4) ON(H)(1)
X SW+5.9V
X SW+13V

IC1501 (REG.JC+5V) VIN(2) VOUT(4) ON(H)(1) → TO DU7402- (14) , (25) / REG.JC+5V(PSC 2)
JC P ON (H) ← FROM TIMER SEC. (IC7502- (89))
IC7503 (REG.+5V) VIN(4) VOUT(5) ON(H)(3) → REG.+5V(PSC 3)
POWER SAVE (L) ← FROM TIMER SEC. (IC7502- (56))
IC1513 (REG.ANA+5V) VIN(4) VOUT(5) ON(H)(3) → REG.ANA+5V(PSC 4)
IC4010 (REG.AU+12V) VIN(1) VOUT(3) ON(H)(2) → REG.AU+12V(PSC 5)
QR4006,4007
IC4013 (REG.AU+9V) VIN(3) VOUT(1) → REG.AU+9V(PSC 6)
IP7501 (1,2) T7501 (POWER TRANS.) (4,6) → UNREG+38V → TO DU7402- (16)

IC4011 (REG.AU+5V) VIN(1) VOUT(3) ON(H)(2) → REG.AU+5V
QR4001,4006
IC7403 (REG.PS+5V) VIN(1) VOUT(6) ON(H)(3) → TO DU7402- (4) / PS+5V(PSC 7)
IC7402 (REG.BOOSTER+5V) VIN(1) ON(H)(3) VOUT(6) → TO DU7402- (1) / BOOSTER+5V (PSC 8)
QR7401
IC1505 (REG.D+5V) VIN(1) VOUT(6) ON(H)(3) → REG.D+5V (PSC 9)
POWER ON (H) ← FROM TIMER SEC. (IC7502- (88))
X SW+13V (PSC 10)
IC7401 (REG.PS+12V) VIN(1) VOUT(3) ON(H)(2) → PS+12V(PSC 11)
POWER SAVE (H) ← FROM TIMER SEC. (IC7502- (58))

IC7505 (SYS PFAIL(H)OUT) VDD(2) OUT(1) → QR7503 (SYS PFAIL(L)OUT) → TO TIMER SEC. (IC7502- (81))

	PP9702	PS9002
D+1.8V	5,6,26	5,6,26
REG.D+1.5V	4,27	4,27
REG.AU+5V	22	22
REG.D+5V	1,30	1,30
REG.D+2.5V	12,19	12,19
REG.ANA+3.3V	2,29	2,29
X SW+5.9V	3,28	3,28

	PP9703	PS9003
D+3.3V	15,16	15,16

D+1.8V → D+1.8V(PSC 12)
REG.D+1.5V → REG. D+1.5V(PSC 13)
D+3.3V → D+3.3V(PSC 14)
REG.D+2.5V → REG.D+2.5V(PSC 17)
REG.ANA+3.3V → REG.ANA+3.3V(PSC 18)
REG.AU+5V → REG.AU+5V(PSC 20)
REG.D+5V

IC9001 (REG.SD+1.8V) VIN(4) VO(5) ON(H)(3) → REG. SD+1.8V(PSC 15)
IC9003 (REG.EN D+1.8V) VIN(4) VO(5) ON(H)(3) → REG.EN D+1.8V(PSC 16)
IC50011 (REG.DAC+3.3V) VIN(1) VOUT(6) ON(H)(3) → REG.DAC+3.3V(PSC 19)
IC9002 (REG.D+3.3V) VIN(1) VOUT(6) ON(H)(3) → REG.D+3.3V(PSC 21)
IC50015 (REG.D+3.3V) VIN(1) VOUT(6) ON(H)(3) → REG.D+3.3V(PSC 22)

SD & PC CARD P.C.B.

	P3503	P6801
REG.D+5V(PSC 9)	17,52	17,52
D+3.3V(PSC 14)	16,51	16,51
X SW+5.9V	19,20,54,55	

IC6807 (REG.DC+5V) VIN(1) VOUT(6) ON/OFF(2) → REG.DC+5V(PSC 23)
QR6801 ← NPWRON ← FROM DAVIS SEC. (IC3503- (181))

DMR-E60EB/EG
Power Supply Block Diagram

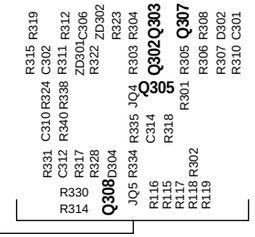
DMR-E60EB/EG
Power Supply Block Diagram

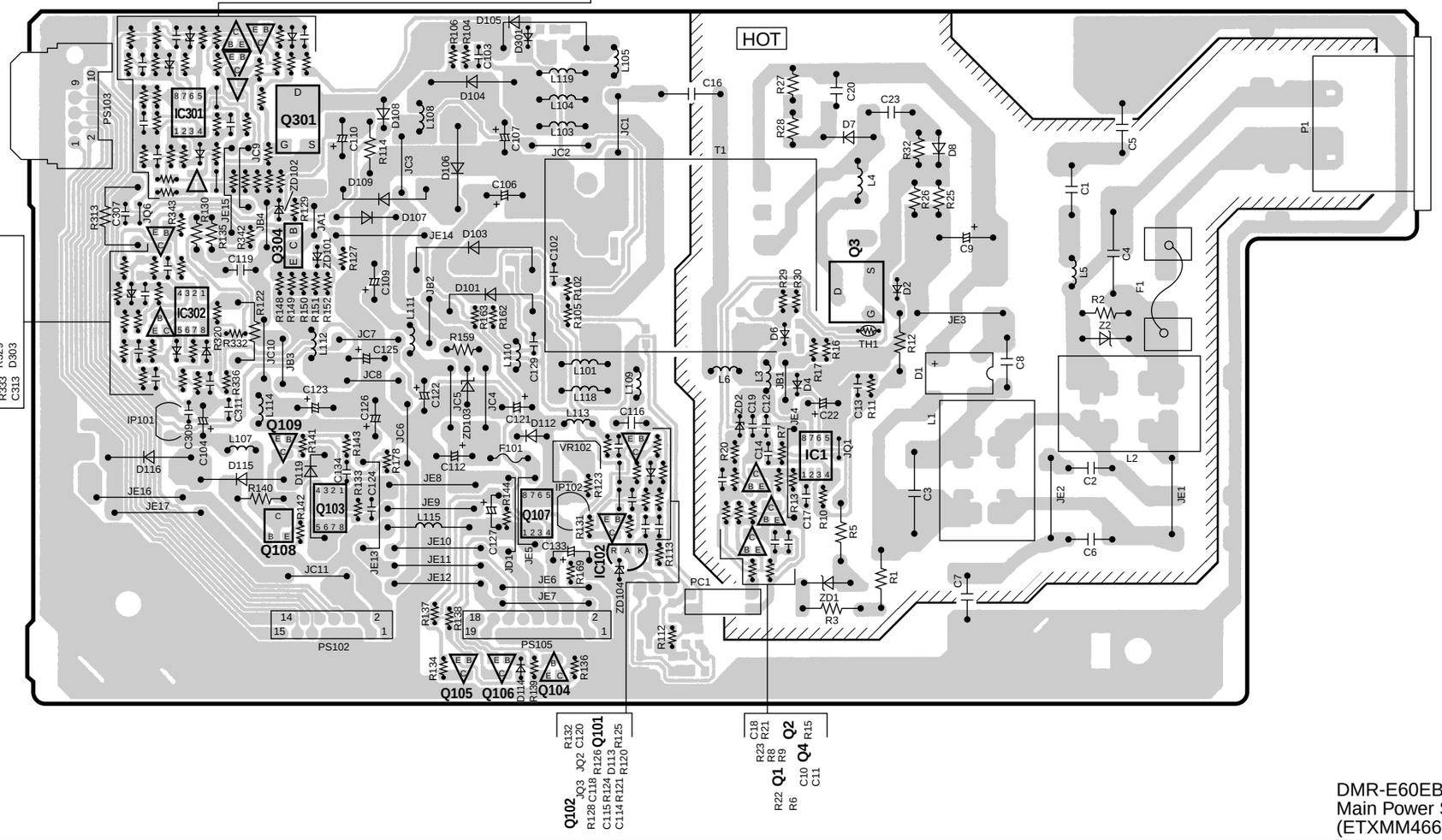
Main Power Supply P.C.B.

MAIN POWER SUPPLY P.C.B.

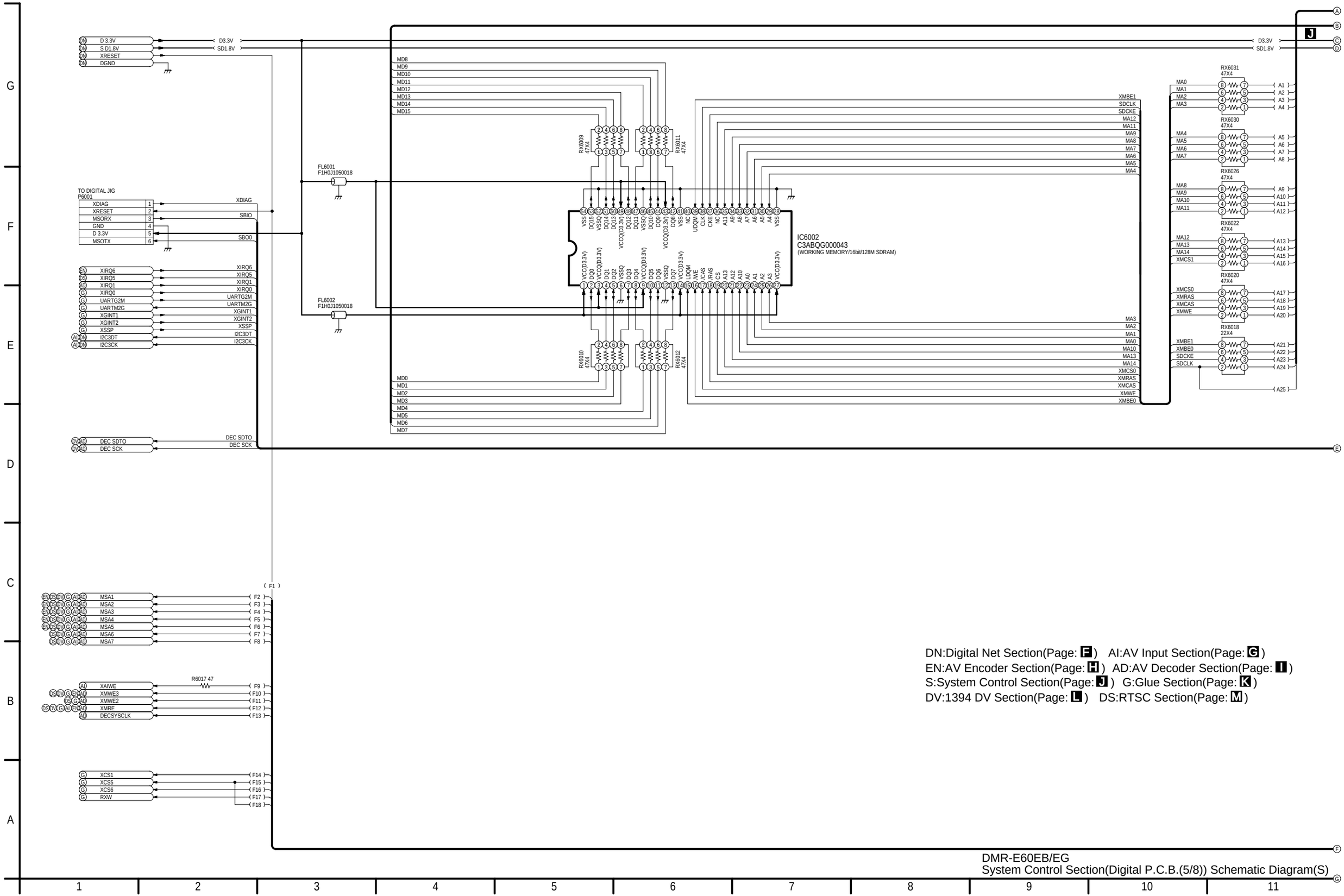
Integrated Circuit		PS105	A-3	ZD104	B-3	F101	B-3	C116	B-4	R6	B-4	R119	C-2	R163	C-3	R333	B-2
IC1	B-4	**Diode**		ZD301	D-2	**Capacitor**		C118	B-4	R7	B-4	R120	B-4	R301	D-2	R334	C-2
IC102	B-4	D1	C-5	ZD302	D-2	C1	C-5	C119	C-2	R8	B-4	R121	B-4	R302	C-2	R335	D-2
IC301	D-2	D2	C-5	ZD303	C-1	C2	B-6	C120	B-4	R9	B-4	R122	C-2	R303	D-2	R336	B-2
IC302	C-2	D4	B-4	**IC Protector**		C3	B-5	C121	B-3	R10	B-4	R123	B-3	R304	D-2	R337	C-2
Transistor		D6	C-4	IP101	B-2	C4	C-6	C122	B-3	R11	B-5	R124	B-4	R305	D-2	R338	D-2
Q1	B-4	D7	C-4	IP102	B-3	C5	D-6	C123	B-2	R12	C-5	R125	B-4	R306	D-2	R339	C-1
Q2	B-4	D8	C-5	**Transformer**		C6	B-6	C124	B-2	R13	B-4	R126	B-4	R307	D-2	R340	D-2
Q3	C-5	D101	C-3	T1	C-4	C7	B-5	C125	C-2	R15	B-4	R127	C-2	R308	D-2	R341	C-1
Q4	B-4	D103	C-3	**Coil**		C8	C-5	C126	B-2	R16	C-4	R128	B-4	R309	C-1	R342	C-2
Q101	B-4	D104	D-3	L1	B-5	C9	C-5	C127	B-3	R17	C-4	R129	C-2	R310	D-2	R343	C-2
Q102	B-3	D105	D-3	L2	B-6	C10	B-4	C129	C-3	R20	B-4	R130	C-2	R311	D-2	R344	B-2
Q103	B-2	D106	C-3	L3	B-4	C11	B-4	C133	B-3	R21	B-4	R131	B-3	R312	D-2	R345	B-2
Q104	A-3	D107	C-2	L4	C-5	C12	B-4	C134	B-2	R22	B-4	R132	B-4	R313	C-1	VR102	B-3
Q105	A-3	D108	D-3	L5	C-5	C13	B-5	C301	D-2	R23	B-4	R133	B-2	R314	C-2	**Thermister**	
Q106	A-3	D109	C-2	L6	B-4	C14	B-4	C302	D-2	R25	C-5	R134	A-3	R315	D-1	TH1	C-5
Q107	B-3	D112	B-3	L101	C-3	C16	D-4	C304	C-2	R26	C-5	R135	C-2	R316	C-2		
Q108	B-2	D113	B-4	L103	D-3	C17	B-4	C306	D-2	R27	D-4	R136	A-3	R317	C-2		
Q109	B-2	D114	A-3	L104	D-3	C18	B-4	C307	C-1	R28	D-4	R137	A-3	R318	D-2		
Q301	D-2	D115	B-2	L105	D-3	C19	B-4	C308	C-2	R29	C-4	R138	A-3	R319	D-1		
Q302	D-2	D116	B-2	L107	B-2	C20	D-4	C309	B-2	R30	C-4	R139	A-3	R320	C-2		
Q303	D-2	D119	B-2	L108	D-3	C22	B-4	C310	D-2	R32	C-5	R140	B-2	R321	C-2		
Q304	C-2	D301	D-3	L109	B-4	C23	D-5	C311	B-2	R102	C-3	R141	B-2	R322	D-2		
Q305	D-2	D302	D-2	L110	C-3	C102	C-3	C312	C-2	R104	D-3	R142	B-2	R323	D-2		
Q306	C-2	D303	C-2	L111	C-3	C103	D-3	C313	B-2	R105	C-3	R143	B-2	R324	D-2		
Q307	D-2	D304	C-2	L112	C-2	C104	B-2	C314	D-2	R106	D-3	R144	B-3	R325	C-1		
Q308	C-2	D305	C-2	L113	B-3	C106	C-3	C315	C-1	R112	A-4	R148	C-2	R326	C-2		
Q309	C-2	Z2	C-6	L114	B-2	C107	C-3	C316	B-2	R113	B-4	R149	C-2	R327	C-1		
PC1	B-4	ZD1	B-4	L115	B-3	C109	C-2	**Resistor**		R114	C-2	R150	C-2	R328	D-2		
Connector		ZD2	B-4	L118	B-3	C110	C-2	R1	B-5	R115	C-2	R151	C-2	R329	C-2		
P1	D-7	ZD101	C-2	L119	D-3	C112	B-3	R2	C-6	R116	C-2	R152	C-2	R330	C-2		
PS102	A-2	ZD102	C-2	**Fuse**		C114	B-4	R3	A-4	R117	C-2	R159	C-3	R331	C-2		
PS103	D-1	ZD103	B-3	F1	C-6	C115	B-4	R5	B-4	R118	C-2	R162	C-3	R332	C-2		

ADDRESS INFORMATION





DMR-E60EB/EG
Main Power Supply P.C.B.
(ETXMM466E4G)



DMR-E60EB/EG
System Control Section(Digital P.C.B.(5/8)) Schematic Diagram(S)

C6001 0.1

R6001 3300

IC6001
C0EBE0000130
(RESET)
VDD VOUT DS VSS NC

FL6003 F1H0J1050018

FL6004 F1H0J1050018

FL6006 F1H0J1050018

FL6005 F1H0J1050018

FL6012 F1H0J1050018

FL6009 F1H0J1050018

FL6013 F1H0J1050018

R6019 33K

R6020 10K

RX6006 10KX4

RX6001 33KX4

RX6002 33KX4

RX6003 3.3KX4

RX6004 3.3KX4

RX6005 3.3KX4

RX6007 33X4

RX6008 33X4

R6022 10K

R6002 3300
R6003 2200
R6004 2200
R6005 33K

R6007 47

R6008 47

R6009 47

CL6003

IC6004
MN103E0500YD
(MAIN CPU)

R6010 1K

R6011 10K

CL6001

X6001
H2D330500001
(33MHz)

R6015 1M

R6012 220

R6013 33

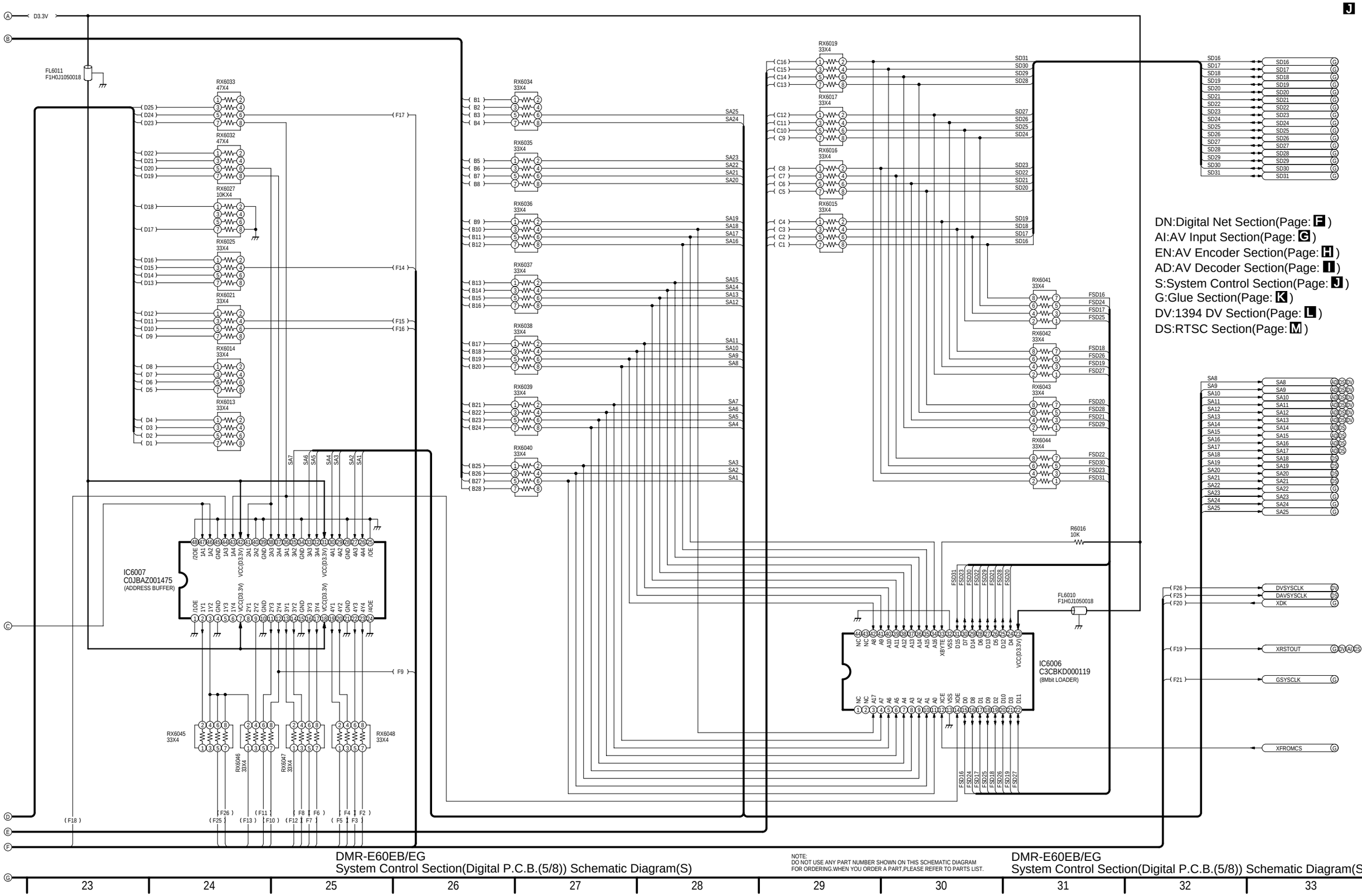
R6014 33

D3.3V

SD1.8V

DMR-E60EB/EG
System Control Section(Digital P.C.B.(5/8)) Schematic Diagram(S)

DMR-E60EB/EG
System Control Section(Digital P.C.B.(5/8)) Schematic Diagram(S)



DMR-E60EB/EG
System Control Section(Digital P.C.B.(5/8)) Schematic Diagram(S)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E60EB/EG
System Control Section(Digital P.C.B.(5/8)) Schematic Diagram(S)

TO PP7401
MAIN P.C.B.
(MAIN NET SEC.)
PS3901

IIC CLK	1
IIC DATA	2
PROG Ⓗ	3
BOOSTER+5V	4
PS 5V	5
TUNER VIDEO	6
GND	7
SCART V IN	8
GND	9
CPS V OUT	10
GND	11
CPN Y OUT	12
GND	13
PS 12V	14
GND	15
B OUT	16
GND	17
G OUT	18
GND	19
R/C OUT	20

TO PP7402
MAIN P.C.B.
(MAIN NET SEC.)
PS3902

AV2 V IN	1
GND	2
R/C IN	3
GND	4
G IN	5
GND	6
B IN	7
GND	8
AV2 8	9
P50	10
————	11
————	12

TO PP7403
MAIN P.C.B.
(MAIN NET SEC.)
PS3903

PWR SAVE Ⓗ	1
AUDIO MUTE	2
GND	3
L3 IN(R)	4
GND	5
L3 IN(L)	6
GND	7
DECODER(R)	8
GND	9
DECODER(L)	10
GND	11
MIX(R) OUT1	12
GND	13
MIX(L) OUT1	14
GND	15

QR3914
UNR221500L
(PROG (H):ON)

QR3915
UNR221500L
(PROG (H):ON)

IC3901
C1AB00001776
(A/V BUFFER AND SWITCH)

Q3901
2SD1819A0L
(AMP)

LB3923 J0JGC0000020
LB3922 J0JGC0000020
LB3925 J0JGC0000020

R3908 470
R3909 470
C3910 16V10
C3911 16V10
C3914 50V1
C3915 50V1
C3916 50V1
C3917 50V1
C3918 16V10
C3919 16V10
C3920 0.1
C3921 6V330
C3909 6V47
R3905 22K
R3907 27K
C3922 0.01
C3925 0.01
C3923 0.1
C3924 6V330
R3980 470
R3979 470
R3906 1K
R3921 75
R3934 75

100K
GAIN CTL (0,2,4,6dB)
AMP
BUF
LPF
EXTEMAL CONTROL4
ALWAYS VCC (5V±0.5V)
CLAMP
75 DR
6dB AMP
CONTROL VCC (5V±0.5V)

SW1R
SW2R
SW3R
MUTE
Rch
Lch
OR
SERIAL CONTROL
VIDEO

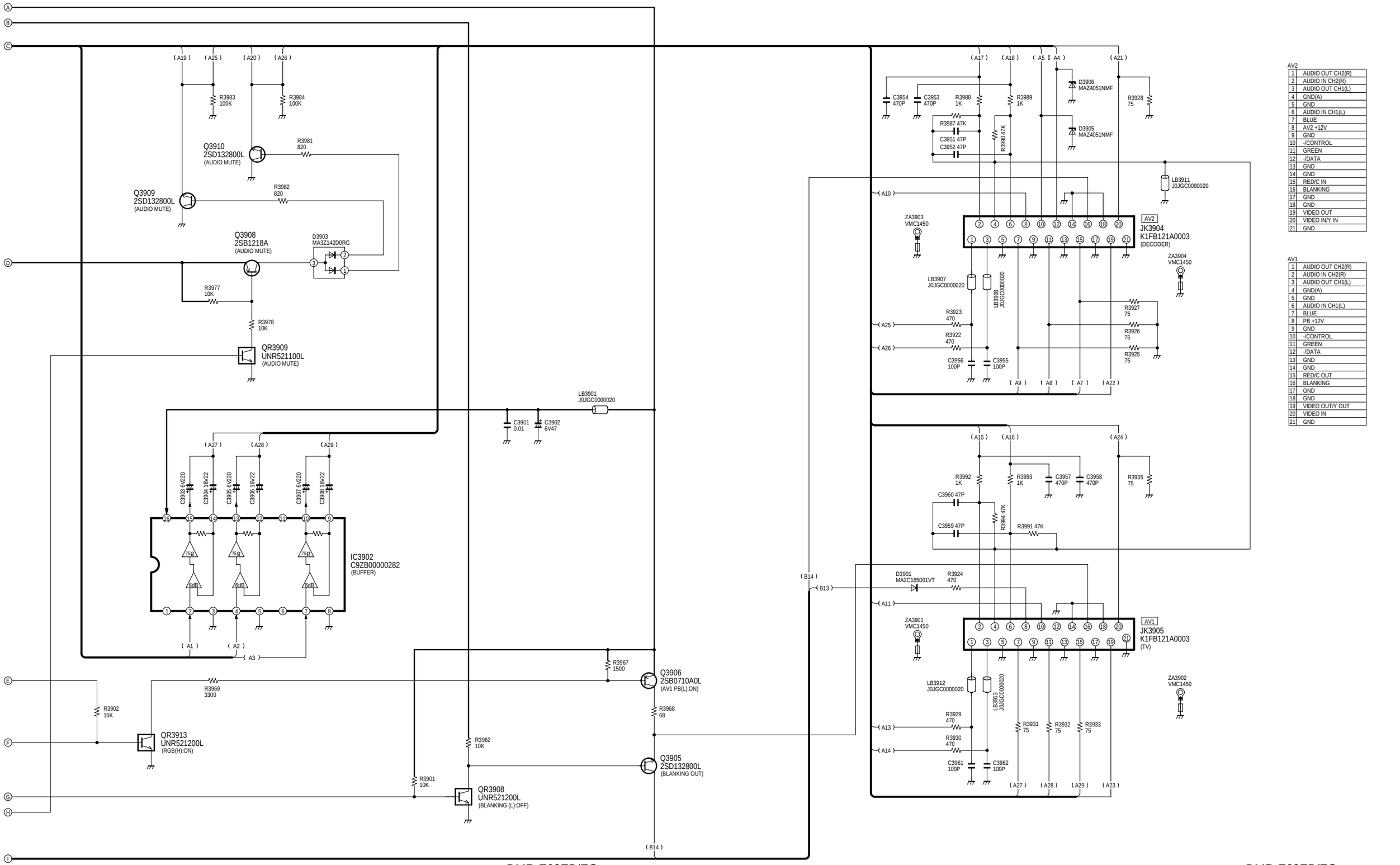
EXT MUTE CONTROL
(HLCH ◄► SW3B)
OPEN LOW ◄► NORMAL1

POWER SAVE
(HLCH ◄► SW3B)
OPEN LOW ◄► NORMAL1
VIDEO SW3

AV2 THROUGH (L)
Y/C(H)
EXTEMAL CONTROL1
EXTEMAL CONTROL2
EXTEMAL CONTROL3
10V REG
TO AUDIO VCC
VCC 12V (12V±0.5V)
TO REF DC
BLANKING (L)
FSS CONTROL TERMINAL (L.M.H)
DATA CLOCK INTERFACE BLOCK

C3928 50V1
C3929 50V1
C3932 50V1
C3931 50V1
C3930 0.01
R3973 10K
R3972 10K
R3914 150
R3904 33
R3985 4700
R3910 150
R3911 2200
R3912 2200
C3933 16V100
C3934 0.01
C3935 16V100
C3938 0.1
C3939 0.01
R3986 1200
R3913 180
R3919 150
R3975 100
R3976 100
R3903 22K

DMR-E60EB/EG
Scart Schematic Diagram



AV2

1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	AV2 +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C IN
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN/Y IN
21	GND

AV1

1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	PB +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C OUT
16	BLANKING
17	GND
18	GND
19	VIDEO OUT/Y OUT
20	VIDEO IN
21	GND

DMR-E60EB/EG
Scart Schematic Diagram

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Scart Schematic Diagram

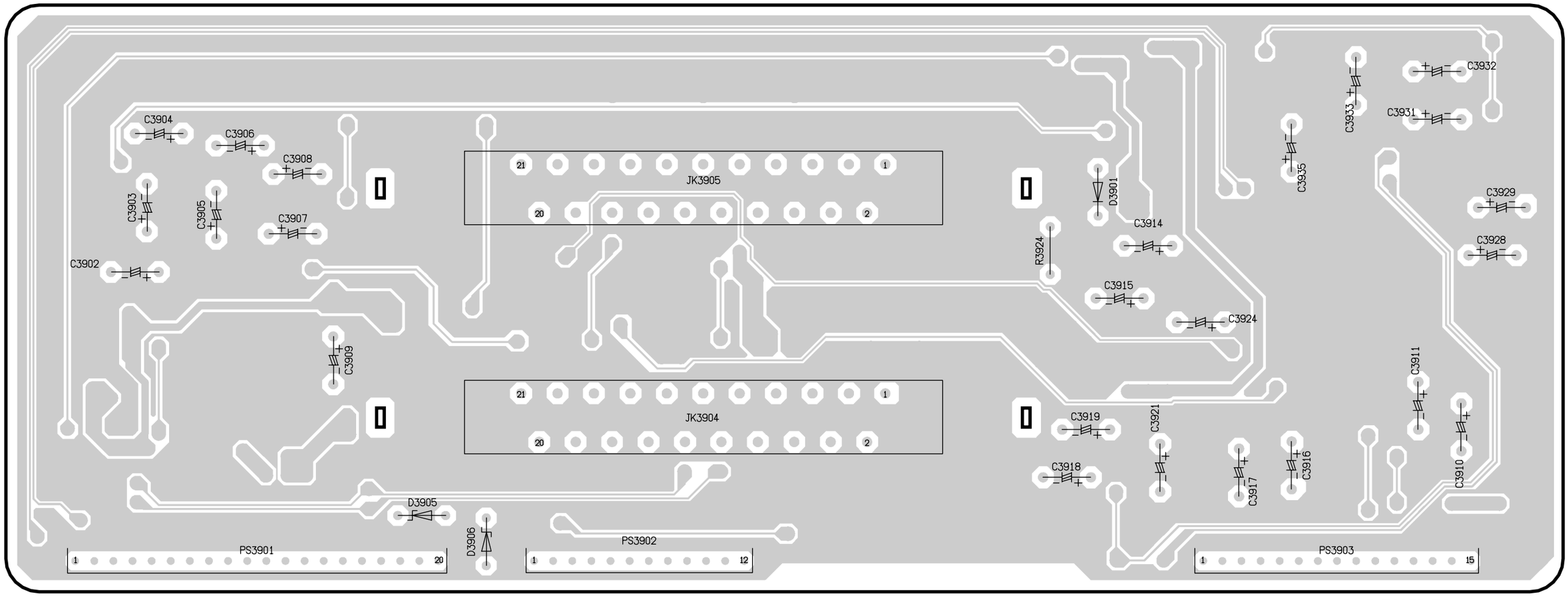
12 13 14 15 16 17 18 19 20 21 22

SCART P.C.B.

Integrated Circuit			PS3901	A-2	C	C3901	C-1	F	C3922	B-4	F	C3956	B-6	F	R3912	C-8	F	R3962	C-3	F	R3986	D-8	F
IC3901	B-8	F	PS3902	A-4	C	C3902	C-2	C	C3923	B-7	F	C3957	C-6	F	R3913	D-8	F	R3963	B-3	F	R3987	A-5	F
IC3902	B-2	F	PS3903	A-8	C	C3903	C-2	C	C3924	B-7	C	C3958	C-6	F	R3914	D-8	F	R3967	B-3	F	R3988	A-6	F
Transistor			**Diode**			C3904	C-2	C	C3925	C-4	F	C3959	C-5	F	R3919	D-8	F	R3968	B-3	F	R3989	A-5	F
Q3901	B-2	F	D3901	C-7	C	C3905	C-2	C	C3928	C-9	C	C3960	C-5	F	R3921	B-4	F	R3969	B-3	F	R3990	A-5	F
Q3905	B-3	F	D3903	B-6	F	C3906	C-2	C	C3929	C-9	C	C3961	C-5	F	R3922	B-5	F	R3970	B-3	F	R3991	C-5	F
Q3906	B-3	F	D3905	A-3	C	C3907	C-2	C	C3930	C-9	F	C3962	C-6	F	R3923	B-6	F	R3972	C-9	F	R3992	C-6	F
Q3908	B-6	F	D3906	A-3	C	C3908	C-2	C	C3931	C-9	C	**Resistor**			R3924	C-6	C	R3973	C-9	F	R3993	C-6	F
Q3909	B-6	F	**Coil**			C3909	B-3	C	C3932	D-9	C	R3901	B-3	F	R3925	B-5	F	R3975	C-7	F	R3994	C-5	F
Q3910	B-6	F	LB3901	B-2	F	C3910	B-9	C	C3933	D-8	C	R3902	B-3	F	R3926	B-5	F	R3976	C-8	F			
Transistor-resistor			LB3907	B-6	F	C3911	B-8	C	C3934	C-8	F	R3903	B-3	F	R3927	B-4	F	R3977	A-6	F			
QR3908	B-3	F	LB3908	B-5	F	C3914	C-7	C	C3935	C-8	C	R3904	C-9	F	R3928	B-3	F	R3978	A-6	F			
QR3909	A-6	F	LB3911	C-5	F	C3915	B-7	C	C3938	C-8	F	R3905	B-2	F	R3929	C-6	F	R3979	B-7	F			
QR3913	B-3	F	LB3912	C-6	F	C3916	B-8	C	C3939	C-8	F	R3906	B-2	F	R3930	C-6	F	R3980	B-7	F			
QR3914	A-1	F	LB3913	C-6	F	C3917	A-8	C	C3951	B-5	F	R3907	B-2	F	R3931	C-5	F	R3981	B-6	F			
QR3915	A-1	F	LB3922	B-1	F	C3918	A-7	C	C3952	B-5	F	R3908	B-9	F	R3932	C-5	F	R3982	B-6	F			
Connector			LB3923	B-1	F	C3919	B-7	C	C3953	A-5	F	R3909	B-9	F	R3933	C-3	F	R3983	B-6	F			
JK3904	B-5	C	LB3925	D-8	F	C3920	B-8	F	C3954	A-6	F	R3910	D-9	F	R3934	C-3	F	R3984	B-6	F			
JK3905	C-5	C	**Capacitor**			C3921	B-7	C	C3955	B-5	F	R3911	C-8	F	R3935	C-4	F	R3985	D-9	F			

ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE

SCART P.C.B.



(COMPONENT SIDE)

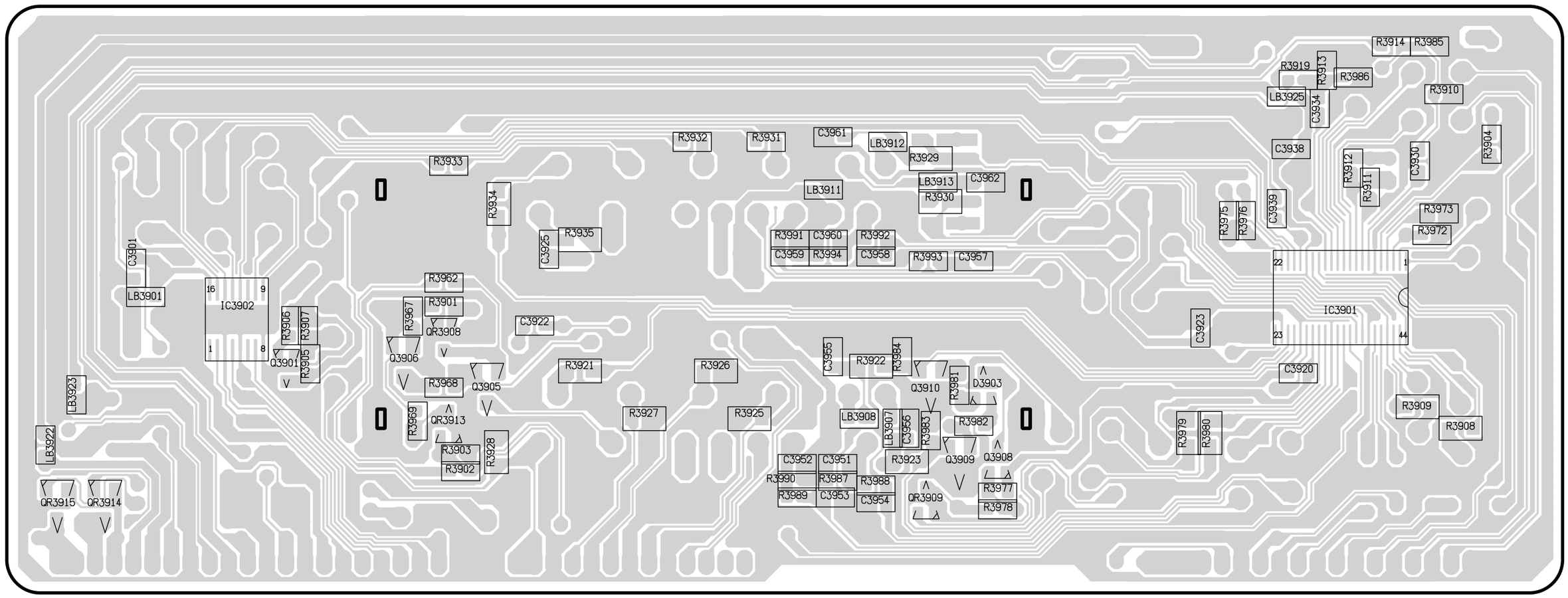
DMR-E60EB/EG
Scart P.C.B. (Component Side)
(REP3533A)

SCART P.C.B.

Integrated Circuit			PS3901	A-2	C	C3901	C-1	F	C3922	B-4	F	C3956	B-6	F	R3912	C-8	F	R3962	C-3	F	R3986	D-8	F
IC3901	B-8	F	PS3902	A-4	C	C3902	C-2	C	C3923	B-7	F	C3957	C-6	F	R3913	D-8	F	R3963	B-3	F	R3987	A-5	F
IC3902	B-2	F	PS3903	A-8	C	C3903	C-2	C	C3924	B-7	C	C3958	C-6	F	R3914	D-8	F	R3967	B-3	F	R3988	A-6	F
Transistor			**Diode**			C3904	C-2	C	C3925	C-4	F	C3959	C-5	F	R3919	D-8	F	R3968	B-3	F	R3989	A-5	F
Q3901	B-2	F	D3901	C-7	C	C3905	C-2	C	C3928	C-9	C	C3960	C-5	F	R3921	B-4	F	R3969	B-3	F	R3990	A-5	F
Q3905	B-3	F	D3903	B-6	F	C3906	C-2	C	C3929	C-9	C	C3961	C-5	F	R3922	B-5	F	R3970	B-3	F	R3991	C-5	F
Q3906	B-3	F	D3905	A-3	C	C3907	C-2	C	C3930	C-9	F	C3962	C-6	F	R3923	B-6	F	R3972	C-9	F	R3992	C-6	F
Q3908	B-6	F	D3906	A-3	C	C3908	C-2	C	C3931	C-9	C	**Resistor**			R3924	C-6	C	R3973	C-9	F	R3993	C-6	F
Q3909	B-6	F	**Coil**			C3909	B-3	C	C3932	D-9	C	R3901	B-3	F	R3925	B-5	F	R3975	C-7	F	R3994	C-5	F
Q3910	B-6	F	LB3901	B-2	F	C3910	B-9	C	C3933	D-8	C	R3902	B-3	F	R3926	B-5	F	R3976	C-8	F			
Transistor-resistor			LB3907	B-6	F	C3911	B-8	C	C3934	C-8	F	R3903	B-3	F	R3927	B-4	F	R3977	A-6	F			
QR3908	B-3	F	LB3908	B-5	F	C3914	C-7	C	C3935	C-8	C	R3904	C-9	F	R3928	B-3	F	R3978	A-6	F			
QR3909	A-6	F	LB3911	C-5	F	C3915	B-7	C	C3938	C-8	F	R3905	B-2	F	R3929	C-6	F	R3979	B-7	F			
QR3913	B-3	F	LB3912	C-6	F	C3916	B-8	C	C3939	C-8	F	R3906	B-2	F	R3930	C-6	F	R3980	B-7	F			
QR3914	A-1	F	LB3913	C-6	F	C3917	A-8	C	C3951	B-5	F	R3907	B-2	F	R3931	C-5	F	R3981	B-6	F			
QR3915	A-1	F	LB3922	B-1	F	C3918	A-7	C	C3952	B-5	F	R3908	B-9	F	R3932	C-5	F	R3982	B-6	F			
Connector			LB3923	B-1	F	C3919	B-7	C	C3953	A-5	F	R3909	B-9	F	R3933	C-3	F	R3983	B-6	F			
JK3904	B-5	C	LB3925	D-8	F	C3920	B-8	F	C3954	A-6	F	R3910	D-9	F	R3934	C-3	F	R3984	B-6	F			
JK3905	C-5	C	**Capacitor**			C3921	B-7	C	C3955	B-5	F	R3911	C-8	F	R3935	C-4	F	R3985	D-9	F			

ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE

SCART P.C.B.



(FOIL SIDE)

DMR-E60EB/EG
Scart P.C.B. (Foil Side)
(REP3533A)

P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)

DMR-E60EB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

DP7501
A2BD00000070
FIP
DISPLAY

TL7501

TL7502

C7501 150P
C7502 150P
C7503 150P
C7504 150P
C7505 150P
C7506 150P
C7507 150P
C7508 150P

LB7501
ERJ3GEY0R00V

C7512
1

C7518
0.1

C7517
35V22

Q7502
2SD0601A0L
(DP DRIVE)

R7504
10K

R7503
68K

Q7501
2SD0601A0L
(DP DRIVE)

R7502
10K

R7501
68K

IC7501
C0HBB0000029
(DISPLAY DRIVE)

R7622 22K
R7593 22K
R7594 22K

C7513
0.1

C7599 100P

C7578 100P

C7579 100P

R7508
27K

C7516
100P

C7515 1

LB7502
ERJ3GEY0R00V

P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)

E

F40 AV2 THROUGH (H) V
F41 YC (H) V
F42 RFC A MUTE M

F57 KEY IN2 P
F61 KEY IN3 P

F46 XSCART MUTE A
F69 PWR SAVE (H) M

F63 A4 S IN(L) V
F60 RGB IN(H) V
F56 LED WARP ON P

F32 XINTM M
F27 XINTP M

C7566
10P

C7565
10P

F16 XTMUTE A
F17 PROG (H) M

F19 WIDE (H) M
F20 AV2 PB (H) M
F71 IIC CLK M V
F72 IIC DATA M V

R7533 4700
R7534 4700

C7548
10P

C7549
10P

F64

F29

F61
F65
F57
F66

F9

C7607
0.01

F70

F62

LB7522
J0JGC0000022

LB7521
ERJ3GEY0R00V

R7604
22K

LB7520
J0JGC0000020

TO P7001
FRONT(L) P.C.B.
P7501

20	CPN 2Y IN
19	GND
18	CPN 2C IN
17	GND
16	LINE 2V IN
15	L2 C S DET
14	GND
13	L2 IN(L)
12	GND
11	L2 IN(R)
10	GND
9	POW LED
8	
7	
6	KEY IN3(R)
5	KEY IN3(L)
4	KEY IN2(R)
3	KEY IN2(L)
2	N SW 5V
1	IR

L2 IN(R) A
L2 IN(L) A
CPS 2V IN V
CPN 2C IN V
CPN 2Y IN V

TO FAN MOTOR
P7504

1	FANDCOUT
2	GND
3	FANLOCK

R7512 330

C7526
35V10

D7503
MAZ4240NMF

C7522
0.1

T7501
ETS13TB119AP
(DISPLAY REG.)

LB7503
G0ZZ00001936

D7504
MA2C18500E

D7502
B0AAGM000007

C7525 6V220

C7529
35V22

C7527
0.022

D7506
MAZ4300NMF

R7514
3.9

R7510
33K

C7523
0.047

R7515
3300

R7516
100

D7505
MA2C18500E

C7528
50V10

C7524
0.01

D7501
B0HAGR000002

Q7503
2SD1994BR1VT
(POWER CTL.)

R7513 22K

R7511
22K

Q7504
2SD0601A0L
(PWR SAVE(H):ON)

F8

C7585
0.01

C7586
16V47

IC7507
C0ABBA000073
(FAN MOTOR DRIVE)

Q7515
2SD111900L
(FAN MOTOR DRIVE)

C7587
0.1

R7602 18K
R7601 820

R7600
10K

C7584
0.1

R7599
22K

IC7506
C3EBJC000038
(EEPROM)

R7607 4700

R7605
22K

C7589 10P

C7590 10P

F38
F71
F72
F33
F34
F35
F21
F22

UARTP2G M
UARTG2P M
XFWE M

F31 POWER ON (H) A P
F30 JC P ON (H) P
F26 AV2 8 M
F24 METER(L) A
F23 METER(R) A
F25 AFC M

UNREG 38V M
DDGND P

F68
F47
F69
F70

DMR-E60EB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Timer Section(Main P.C.B.(5/5))
Schematic Diagram(T)

12 13 14 15 16 17 18 19 20 21 22

P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)

IC3001
C1AB00001805
(VIDEO PROCESS)

DMR-E60EB/EG
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

C

P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)

IC3003
C9ZB00000377
(VIDEO BUFFER)

IC3002
C0JBAR000292
(SELECTOR SW.)

IC3004
C0JBAR000292
(SELECTOR SW.)

JK3001
K1UB22B00001
(REAR JACK)

LB3016
J0JHC0000032

TO PS3502
SHIELD P.C.B.
PP3002

1	PS 5V
2	GND
3	—
4	GND
5	AV2 V IN
6	GND
7	R/C IN
8	GND
9	G IN
10	GND
11	B IN
12	—

TO PS3501
SHIELD P.C.B.
PP3001

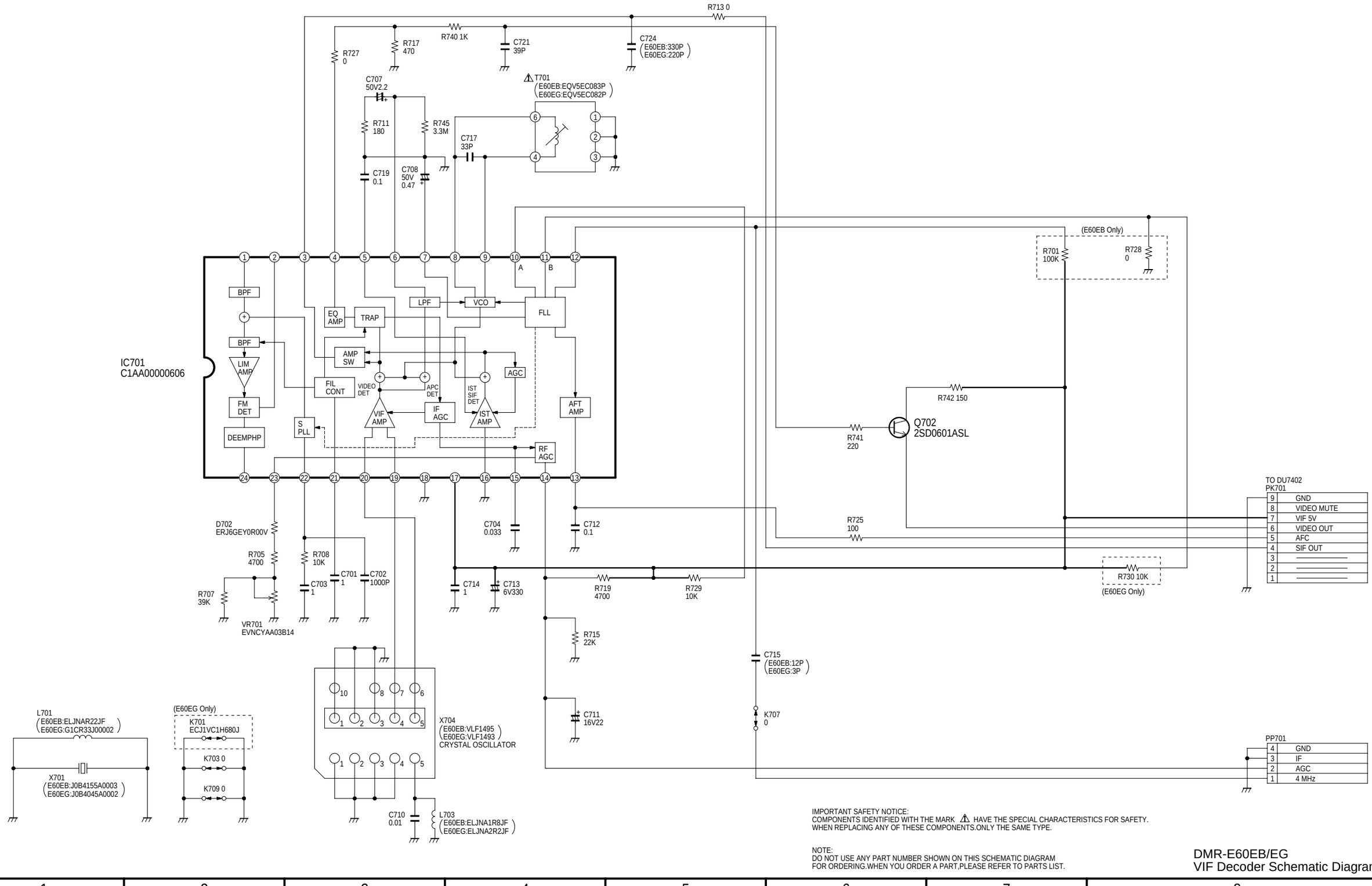
1	ANA5V
2	GND
3	RGB Y
4	GND
5	RGB C
6	GND
7	RGB IN (H)
8	—

DMR-E60EB/EG
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Video I/O Section(Main P.C.B.(3/5))
Schematic Diagram(V)

12 13 14 15 16 17 18 19 20 21 22

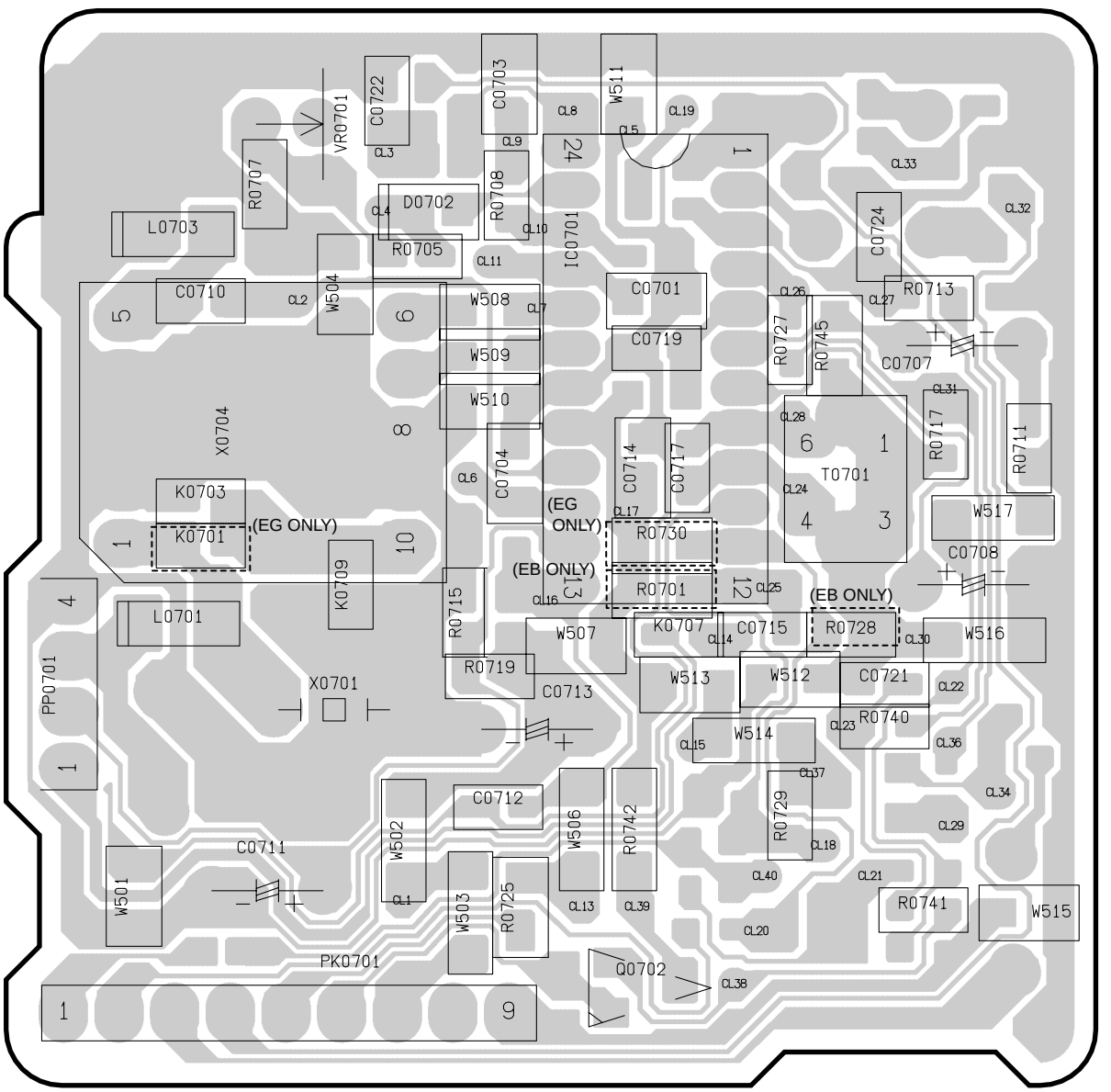


IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E60EB/EG
VIF Decoder Schematic Diagram

VIF Decoder P.C.B.



VIF Decoder P.C.B.
VEP07A23Z: DMR-60EB
VEP07A23Y: DMR-E60EG

Ref No.	IC7301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.5	2.5	5.0	0	0	4.9	0	-	0	0.7	0	0.3	0	1.5	1.5	0	0	2.0	0	0
PLAY	2.5	2.5	5.0	0	0	4.9	0	-	0	0.4	0	0.3	0	1.5	1.5	0	0	2.0	0	0
STOP	2.5	2.5	5.0	0	0	4.9	0	-	0	0.4	0	0.4	0	1.5	1.5	0	0	2.0	0	0

Ref No.	IC7301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.5	0.5	0.5	0.6	5.0	0	4.9	2.5	2.5	2.5
PLAY	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.5	0.5	0.5	0.5	5.0	0	4.9	2.5	2.5	2.5
STOP	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.7	0.7	0.6	0.6	5.0	0	4.9	2.5	2.5	2.5

Ref No.	IC7301																			
MODE	41	42	43	44																
REC	2.5	4.9	2.5	0																
PLAY	2.5	4.9	2.5	0																
STOP	2.5	4.9	2.5	0																

Ref No.	IC7302																			
MODE	1	2	3																	
REC	5.0	0	4.9																	
PLAY	5.0	0	4.9																	
STOP	5.0	0	4.9																	

Ref No.	QR7001																			
MODE	E	C	B																	
REC	0	3.6	0																	
PLAY	0	3.6	0																	
STOP	0	8.8	0																	

Ref No.	QR7801																			
MODE	E	C	B																	
REC	0	3.6	0																	
PLAY	0	3.6	0																	
STOP	0	3.6	0																	

Ref No.	IC1501						IC1502									IC1504				
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8		1	2	3	4	5
REC	4.8	6.3	0	5.0	5.0		1.5	1.5	3.4	3.4	0	0	1.8	1.8		4.7	5.1	0	3.3	3.3
PLAY	4.8	6.3	0	5.0	5.0		1.5	1.5	3.4	3.4	0	0	1.8	1.9		4.7	5.1	0	3.3	3.3
STOP	4.8	6.1	0	5.0	5.0		1.5	1.5	3.4	3.4	0	0	1.9	1.9		4.7	5.1	0	3.3	3.3
Ref No.	IC1505						IC1513													
MODE	1	2	3	4	5	6		1	2	3	4	5								
REC	6.4	0	4.7	1.2	0	5.0		1.2	0	4.7	6.4	4.9								
PLAY	6.4	0	4.7	1.2	0	5.0		1.2	0	4.7	6.3	4.9								
STOP	6.2	0	4.7	1.2	0	5.0		1.2	0	4.7	6.1	4.9								
Ref No.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.5	5.0	1.5	0	2.0	4.8	2.0	0	0.1	2.7	0	2.0	4.8	1.5	5.0	0.1	2.7	0.1	1.5	4.8
PLAY	1.5	5.0	1.5	0	2.0	4.8	2.0	0	0.1	2.7	0	2.0	4.8	1.5	5.0	0.1	2.7	0.1	1.5	4.8
STOP	1.5	5.0	1.5	0	2.0	4.8	2.0	0	0.1	2.7	0	2.0	4.8	1.5	5.0	0.1	2.7	0.1	1.5	4.8
Ref No.	IC3001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.5	0	0.1	2.7	0	2.0	5.0	2.7	4.7	4.4	4.2	0	0	0	2.4	1.2	1.6	2.0	0	2.0
PLAY	1.5	0	0.1	2.7	0	2.0	5.0	2.7	4.7	4.4	4.2	0	0	0	2.4	1.2	1.6	2.0	0	2.0
STOP	1.5	0	0.1	2.7	0	2.0	5.0	2.7	4.7	4.4	4.2	0	0	0	2.4	1.2	1.6	2.0	0	2.0
Ref No.	IC3001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
REC	5.0	2.0	0	1.7	5.0	0.2	2.0	2.3	1.8	0.8	1.8	2.2								
PLAY	5.0	2.0	0	1.7	5.0	0.2	2.1	2.3	1.8	0.8	1.8	2.2								
STOP	5.0	2.0	0	1.7	5.0	0.2	2.0	2.3	1.7	0.8	1.8	2.2								
Ref No.	IC3002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0.7	0.7	0	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	5.0				
PLAY	0.7	0.7	0	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	5.0				
STOP	0.7	0.7	0	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	5.0				
Ref No.	IC3003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.0	4.9	2.7	0	2.5	4.9	0	2.1	0	1.6	4.9	2.7	0	2.7	4.9	2.1	2.3	-	0	0
PLAY	2.0	4.9	2.7	0	2.5	4.9	0	2.1	0	1.6	4.9	2.7	0	2.7	4.9	2.1	2.3	-	0	0
STOP	2.0	4.9	2.7	0	2.5	4.9	0	2.1	0	1.6	4.9	2.7	0	2.7	4.9	2.1	2.3	-	0	0
Ref No.	IC3003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	0	4.2	0	2.2	2.2	0	2.0	0	2.1	2.2	0	2.3								
PLAY	0	4.2	0	2.2	2.2	0	2.0	0	2.1	2.1	0	2.3								
STOP	0	4.2	0	2.2	2.2	0	2.0	0	2.1	2.2	0	2.3								

Ref No.	IC3004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0.7	0.7	0.7	0.7	0.7	0	0	0	5.0	5.0	5.0	0.7	0.7	0.7	0.7	5.0				
PLAY	0.7	0.7	0.7	0.7	0.7	0	0	0	5.0	5.0	5.0	0.7	0.7	0.7	0.7	5.0				
STOP	0.7	0.7	0.7	0.7	0.7	0	0	0	5.0	5.0	5.0	0.7	0.7	0.7	0.7	5.0				
Ref No.	IC4001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.4	4.4	4.4	3.4	4.5	4.5	4.5	3.4	4.4	4.4	4.4	4.4	4.4	4.4	0	0	0	0	0	4.4
PLAY	4.4	4.4	4.4	3.3	4.5	4.5	4.5	3.3	4.4	4.4	4.4	4.4	4.4	4.4	0	0	0	0	0	4.4
STOP	4.4	4.4	4.4	3.3	4.5	4.5	4.5	3.3	4.4	4.4	4.4	4.4	4.4	4.4	0	0	0	0	0	4.4
Ref No.	IC4001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	4.2	0	4.5	4.5	4.4	4.4	0	4.5	4.5	9.1	4.4	4.4								
PLAY	4.2	0	4.5	4.5	4.4	4.4	0	4.5	4.5	9.1	4.4	4.4								
STOP	4.2	0	4.5	4.5	4.4	4.4	0	4.5	4.5	9.1	4.4	4.4								
Ref No.	IC4005									IC4006				IC4007						
MODE	1	2	3	4	5	6	7	8		1	2	3		1	2	3	4	5		
REC	2.5	5.0	0	0	5.0	0	2.5	5.0		2.5	5.0	0		5.0	1.6	0	2.5	5.0		
PLAY	2.5	5.0	0	0	5.0	0	2.5	5.0		2.5	5.0	0		5.0	1.6	0	2.5	5.0		
STOP	2.5	5.0	0	0	5.0	0	2.5	5.0		2.5	5.0	0		5.0	1.6	0	2.5	5.0		
Ref No.	IC4009									IC4010						IC4011				
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		14.8	9.3	5.0	-	0		6.4	4.5	5.0	-	0
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		14.8	9.3	12.0	-	0		6.4	4.5	5.0	-	0
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		14.5	9.2	12.0	-	0		6.2	4.4	5.0	-	0
Ref No.	IC4012									IC4013				IC7401						
MODE	1	2	3	4	5	6	7	8		1	2	3		1	2	3	4	5		
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		9.1	0	12.0		14.8	4.3	12.0	-	0		
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		9.1	0	12.0		14.7	4.3	12.0	-	0		
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		9.1	0	12.0		14.5	4.1	12.0	-	0		
Ref No.	IC7402							IC7403												
MODE	1	2	3	4	5	6		1	2	3	4	5	6							
REC	6.3	0	6.3	1.2	0	5.0		6.3	0	4.3	1.2	0	5.0							
PLAY	6.3	0	6.3	1.2	0	5.0		6.3	0	4.3	1.2	0	5.0							
STOP	6.1	0	6.1	1.2	0	5.0		6.1	0	4.1	1.2	0	5.0							
Ref No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	-28.8	-28.8	-28.7	-26.0	-26.4	-26.4	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	4.8	1.9	4.4	2.6	0	5.0	5.0	2.3
PLAY	-28.9	-28.8	-28.8	-26.0	-26.5	-26.5	-26.0	-26.0	-26.1	-26.1	-26.0	-26.1	4.8	1.9	4.4	2.6	0	5.0	5.0	2.3
STOP	-28.8	-28.8	-28.8	-26.0	-26.4	-26.4	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	4.8	1.9	4.4	2.6	0	5.0	5.0	2.3
Ref No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.3	0	-28.9	-28.8	-28.8	-23.2	-26.0	-20.5	-28.8	-23.2	-26.1	-29.5	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-20.4	-17.6
PLAY	2.3	0	-28.9	-28.9	-28.9	-20.5	-26.1	-20.5	-28.9	-26.1	-26.1	-29.6	-26.0	-23.2	-26.1	-26.0	-28.9	-26.0	-20.4	-20.4
STOP	2.3	0	-28.8	-28.8	-28.8	-28.9	-26.0	-23.2	-28.8	-26.0	-26.0	-29.5	-26.0	-23.2	-26.0	-26.0	-26.0	-26.0	-23.2	-20.4
Ref No.	IC7501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	-14.8	-14.8	-20.5	-23.3	-20.5	-20.5	-17.6	-17.7	-14.8	-20.5	-26.1	-26.1	-26.1	-26.1	-26.1	-26.1	-20.4	-26.1	-23.3	5.0
PLAY	-23.2	-23.2	-20.5	-20.5	-23.3	-20.5	-17.6	-23.3	-20.4	-17.6	-26.1	-28.9	-28.9	-23.2	-26.1	-28.9	-20.4	-14.7	-26.1	5.0
STOP	-20.4	-17.6	-23.3	-17.7	-23.3	-17.7	-20.4	-17.6	-20.4	-14.8	-26.1	-26.1	-26.1	-26.0	-26.0	-26.0	-23.2	-20.3	-26.0	5.0
Ref No.	IC7501																			
MODE	61	62	63	64																
REC	-28.9	-28.9	-28.9	-28.9																
PLAY	-28.9	-28.9	-28.9	-28.9																
STOP	-28.8	-28.8	-28.8	-28.8																
Ref No.	IC7502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.8	1.7	4.7	0	0	0	0	0	1.1	1.1	4.8	2.2	0	2.2	4.8	4.8	5.0	5.0	0.3	4.8
PLAY	4.8	1.7	4.7	0	0	0	0	0	1.1	1.1	4.8	2.2	0	2.2	4.8	4.8	5.0	5.0	0.3	4.8
STOP	4.8	1.7	4.7	0	0	0	0	0	1.1	1.1	4.8	2.2	0	2.2	4.8	4.8	5.0	5.0	0.3	4.8
Ref No.	IC7502																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	0	0	0	0	0	0	4.4	4.1	0	1.7	1.4	1.4	4.8	0	0	0.3	5.0	0.5	4.8
PLAY	0	0	0	0	0	0	4.8	4.4	4.1	0	1.7	1.4	1.4	4.8	0	0	0.3	5.0	0.5	4.8
STOP	0	0	0	0	0	0	0	4.8	0.2	0	1.7	1.4	1.4	4.8	4.8	0	0.3	0.2	0.2	0.1
Ref No.	IC7502																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	2.6	2.6	4.4	0	4.8	0	0	0	0	0	0	4.8	0	0	4.8	4.8	0	0	0.1
PLAY	0	2.6	2.6	4.4	0	4.8	0	0	0	0	0	0	4.8	0	0	4.8	4.8	0	0	0.1
STOP	0	0	0	5.0	0	4.8	0	0	0	0	0	0	4.8	0	0	4.8	4.8	0	0	0.1
Ref No.	IC7502																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0.1	4.8	4.8	2.4	0	0	0	0	4.8	4.8	0	0	0	0	0	0	4.8	4.8	0	5.1
PLAY	0.1	4.8	4.8	2.4	0	0	0	0	4.8	4.8	0	0	0	0	0	0	4.8	0	0	5.1
STOP	0.1	4.8	4.8	2.4	0	0	0	0	4.8	4.8	0	0	0	0	0	0	4.8	0	0	5.1
Ref No.	IC7502																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	4.9	4.8	4.8	4.8	0	0	4.9	4.8	0	0	0	1.9	5.0	4.9	4.8	4.8	0	0	2.1
PLAY	0	4.9	4.8	4.8	4.8	0	0	4.8	4.8	0	0	0	1.9	5.0	4.9	4.8	4.8	4.9	0	2.1
STOP	0	5.0	4.8	4.8	4.8	0	0	4.8	4.8	0	0	0	4.8	5.0	5.0	4.8	4.8	0	0	2.1
Ref No.	IC7502																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116				
REC	0	0	0	4.8	4.8	4.8	5.0	4.8	2.0	1.3	0	4.8	2.0	0	2.2	5.0				
PLAY	0	0	0	4.8	4.8	4.8	5.0	4.8	2.0	1.3	0	4.8	2.0	0	2.2	5.0				
STOP	0	0	0	4.8	4.8	4.8	5.0	4.8	2.0	1.3	0	4.8	2.0	0	2.2	5.0				

Ref No.	IC7503						IC7504						IC7505						
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5		
REC	1.2	0	4.6	6.4	5.0		5.1	5.1	0	-	-		2.2	3.4	0	-	-		
PLAY	1.2	0	4.6	6.4	5.0		5.1	5.1	0	-	-		2.2	3.4	0	-	-		
STOP	1.2	0	4.6	6.2	5.0		5.1	5.1	0	-	-		2.2	3.4	0	-	-		
Ref No.	IC7506									IC7507									
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8		
REC	0	0	0	0	4.1	4.4	4.8	4.8		5.4	1.7	1.7	0	1.7	1.7	1.7	14.8		
PLAY	0	0	0	0	4.1	4.4	4.8	4.8		5.4	1.7	1.7	0	1.7	1.7	1.7	14.8		
STOP	0	0	0	0	4.2	4.4	4.8	4.8		5.4	1.7	1.7	0	1.7	1.7	1.7	14.5		
Ref No.	IC7508																		
MODE	1	2	3	4	5														
REC	0	0	-	4.8	4.8														
PLAY	0	0	-	4.8	4.8														
STOP	0	0	-	4.8	4.8														
Ref No.	Q3005				Q3007				Q3008				Q3009				Q3010		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	2.2	0	1.6		3.2	0	2.5		1.8	0	1.1		1.6	0	0.9		1.6	0	0.9
PLAY	2.2	0	1.6		3.2	0	2.5		1.8	0	1.1		1.5	0	0.9		1.5	0	0.9
STOP	2.2	0	1.6		3.2	0	2.5		1.8	0	1.1		1.6	0	0.9		1.6	0	0.9
Ref No.	Q3011				Q3012				Q3013				Q3014						
MODE	E	C	B		E	C	B		E	C	B		E	C	B				
REC	1.6	0	0.9		1.7	0	1.8		2.0	0	2.4		2.2	0	1.6				
PLAY	1.6	0	0.9		1.7	0	1.8		2.0	0	2.4		2.2	0	1.6				
STOP	1.6	0	0.9		1.7	0	1.8		2.0	0	2.4		2.2	0	1.6				
Ref No.	Q4004				Q4006				Q4007				Q4008				Q4009		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	5.1	-0.2	5.1		0	0	-0.3		0	0	-0.3		0	0	-0.3		0	0	-0.3
PLAY	5.1	-0.1	5.1		0	0	-0.2		0	0	-0.2		0	0	-0.2		0	0	-0.3
STOP	5.1	0	5.1		0	0	-0.2		0	0	-0.2		0	0	-0.1		0	0	-0.1
Ref No.	Q7401				Q7402				Q7403				Q7404				Q7405		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	12.0	0		1.0	0	0.4		1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9
PLAY	0	12.0	0		1.0	0	0.4		1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9
STOP	0	12.0	0		1.0	0	0.4		1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9
Ref No.	Q7406				Q7501				Q7502				Q7503				Q7504		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	0	0.7		-26.5	5.0	-26.5		-26.5	5.0	-26.5		0	4.2	-1.2		0	-1.2	-1.2
PLAY	0	0	0.7		-26.6	5.0	-26.5		-26.6	5.0	-26.5		0	4.1	-1.2		0	-1.2	-1.1
STOP	0	0	0.7		-26.5	5.0	-26.4		-26.5	5.0	-26.4		0	4.5	-1.1		0	-1.1	-1.1
Ref No.	Q7505				Q7506				Q7507				Q7508				Q7509		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	2.6	0	2.0		2.0	5.0	1.6		2.7	0	2.0		2.0	5.0	1.6		3.5	4.8	3.6
PLAY	2.6	0	2.0		2.0	5.0	1.6		2.7	0	2.0		2.0	5.0	1.6		3.5	4.8	3.6
STOP	2.6	0	2.0		2.0	5.0	1.6		2.7	0	2.0		2.0	5.0	1.6		3.5	4.8	3.7
Ref No.	Q7510				Q7511				Q7512				Q7513				Q7515		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		1	2	3
REC	1.6	0	1.0		0	5.0	0		0	0	0.5		0	4.3	0		5.4	14.8	4.8
PLAY	1.6	0	1.0		0	5.0	0		0	0	0.5		0	4.3	0		5.4	14.8	4.8
STOP	1.6	0	1.0		0	5.0	0		0	0	0.5		0	4.3	0		5.4	14.5	4.8
Ref No.	QR4001				QR4002				QR4003				QR4004				QR4005		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	4.5	0		0	0	4.7		0	0	2.3		0	5.1	0		0	5.1	0
PLAY	0	4.5	0		0	0	4.7		0	0	2.3		0	5.1	0		0	5.1	0
STOP	0	4.4	0		0	0	4.7		0	0	2.4		0	5.1	0		0	5.1	0
Ref No.	QR4006				QR4007				QR4012				QR7401				QR7402		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	0	4.7		0	9.3	0		5.1	0	4.9		0	4.3	0		0	5.2	0
PLAY	0	0	4.7		0	9.3	0		5.1	0	4.9		0	4.3	0		0	5.2	0
STOP	0	0	4.7		0	9.2	0		5.1	0	5.0		0	4.3	0		0	5.2	0
Ref No.	QR7403				QR7404				QR7405				QR7406				QR7407		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	0	5.2		12.0	-0.3	11.9		0	11.9	0		0	-0.1	0		0	0	-0.1
PLAY	0	0	5.2		12.0	12.0	0		0	0.1	4.8		0	-0.3	0		0	0	-0.3
STOP	0	0	5.2		12.0	-0.1	11.9		0	11.9	0		0	-0.1	0		0	0	-0.1
Ref No.	QR7502				QR7503														
MODE	E	C	B		E	C	B												
REC	4.8	0	4.8		0	0	2.2												
PLAY	4.8	0	4.8		0	0	2.2												
STOP	4.8	0	4.8		0	0	2.2												

PSC 1. X SW+5.15V

Ref. No.	Pin. No.	Schematic Name
IC7502	15,34,69	Timer (Main)
	105,106,108	
	112	
IC7504	2	
IC7506	8	
IC7508	5	

PSC 2. REG.JC+5V

Ref. No.	Pin. No.	Schematic Name
IC3001	2,15,27	Video I/O (Main)
	41,45	
IC7301	3,6,28,35	Nicam/Decoder P.C.B.
IC7302	1	

PSC 3. REG.+5V

Ref. No.	Pin. No.	Schematic Name
IC7501	19,60	Timer (Main)

PSC 4. REG.ANA+5V

Ref. No.	Pin. No.	Schematic Name
IC3003	2,6,11,15	Video I/O (Main)
IC3202	6,18,26,93	AV Input (Digital)

PSC 5. REG.AU+12V

Ref. No.	Pin. No.	Schematic Name
IC4009	8	Audio Main (Main)
IC4012	8	

PSC 6. REG.AU+9V

Ref. No.	Pin. No.	Schematic Name
IC4001	30	Audio Main (Main)

PSC 7. PS+5V

Ref. No.	Pin. No.	Schematic Name
IC3002	16	Video I/O (Main)
IC3004	16	
IC3901	24	Scart P.C.B.
IC3902	16	

PSC 8. BOOSTER+5V

Ref. No.	Pin. No.	Schematic Name
IC3901	29	Scart P.C.B.

PSC 9. REG.D+5V

Ref. No.	Pin. No.	Schematic Name
IC4005	8	Audio Main (Main)
IC4006	2	
IC4007	5	
IC6802	8	PC Card P.C.B.
IC6803	7,18,31,42	
IC6804	7,18	

PSC 10. X SW+13V

Ref. No.	Pin. No.	Schematic Name
IC7507	8	Timer (Main)

PSC 11. PS+12V

Ref. No.	Pin. No.	Schematic Name
IC3901	14	Scart P.C.B.

PSC 12. D+1.8V

Ref. No.	Pin. No.	Schematic Name
IC37001	17,47,64,81	1394/DV (Digital)
	92,126,133	
	146,179,212	

PSC 13. REG.D+1.5V

Ref. No.	Pin. No.	Schematic Name
IC3203	39,64,88	AV Input (Digital)
	109,131,156	
	232,237	
IC50003	12,30,48	AV Decoder (Digital)
	69,98,127	
	135,172,186	

PSC 14. D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3201	1,7,13,25	AV Input (Digital)
	34,38,44	
IC3202	61,70,79	
IC3203	31,38,45	
	52,58,65	
	71,78,84	
	91,108,119	
	130,137,145	
	159,166,179	
	238,239	
IC3204	5	
IC3205	5	
IC4404	5	
IC3401	1,3,9,15,29	AV Encoder (Digital)
	35,41,43,49	
	55,75,81	
IC3402	4,14,22,34	
	46,50,57,66	
	75,83,91	
	100,110,118	
	126,132,139	
	145,152,160	
	167,172,181	
	185,192,199	
	202,205	
IC3501	1,3,9,14	RTSC (Digital)
	27,43,49	
IC3502	1,3,9,14	
	27,43,49	

PSC 14. D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3503	7,18,33,48	RTSC (Digital)
	63,75,81,93	
	104,114,128	
	142,150,157	
	168,177,187	
	198,206,213	
	216,222,229	
	237,241,245	
	246,257,268	
	280,287	
IC37001	10,19,29,37	1394/DV (Digital)
	43,50,56,69	
	76,87,97	
	108,118,132	
	141,153,171	
	183,190,197	
	207,216	
IC37002	25,26,61,62	
IC37006	19	
IC50001	1,11,14,19	AV Decoder (Digital)
IC50002	1,3,9,14	
	27,43,49	
IC50003	5,15,26,39	
	52,58,66,75	
	89,103,131	
	144,152,157	
	165,175,184	
	194,203	
IC50004	1,3,9,14	
	27,43,49	
IC50005	5	
IC50006	5	
IC50009	20	
IC50013	5	
IC50014	14	
IC6001	5	Syscon (Digital)
IC6002	1,3,9,14	
	27,43,49	
IC6004	2,20,33,43	
	54,74,110	
	121,132,152	
	164,170,183	
	202	
IC6006	23	
IC6007	7,18,31,42	
IC6701	29,57,82	GLUE (Digital)
	103,134,161	
	184,204,206	
IC6702	5	
IC6703	23,44	
IC6801	8	PC Card P.C.B.
IC6804	31,42	
IC6805	8	
IC6806	14	
IC6810	8	

PSC 15. REG.SD+1.8V

Ref. No.	Pin. No.	Schematic Name
IC6004	21,55,75	Syscon (Digital)
	111,122,153	
	184,203	

PSC 16. REG.EN D+1.8V

Ref. No.	Pin. No.	Schematic Name
IC3402	7,19,32,44	AV Encoder (Digital)
	59,71,84,96	
	111,123,136	
	148,163,175	
	188,198	

PSC 17. REG.D+2.5V

Ref. No.	Pin. No.	Schematic Name
IC3503	14,30,59,91	RTSC (Digital)
	124,149,184	
	199,227,260	
	281	

PSC 18. REG.ANA+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3202	38,42,43,47	AV Input (Digital)
	53,80,84	
IC3203	30	
IC3402	30	AV Encoder (Digital)
IC37002	30,31,42	1394/DV (Digital)
	51,52,56	
IC50003	105,112,118	AV Decoder (Digital)

PSC 19. REG.DAC+3.3V

Ref. No.	Pin. No.	Schematic Name
IC4403	14	AV Input (Digital)
IC50010	5	AV Decoder (Digital)

PSC 20. REG.AU+5V

Ref. No.	Pin. No.	Schematic Name
IC4402	8	AV Input (Digital)
IC4403	5	
IC50010	6	AV Decoder (Digital)

PSC 21. REG.D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC37003	12,31,43	1394/DV (Digital)
IC37008	5	
IC37011	5	

PSC 22. REG.D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC50001	5,6	AV Decoder (Digital)

PSC 23. REG.DC+5V

Ref. No.	Pin. No.	Schematic Name
IC6809	2	PC Card P.C.B.

Ref No.	IC1									IC102										
MODE	1	2	3	4	5	6	7	8		K	A	R								
REC	2.2	2.5	0.1	2.0	0	7.6	17.4	5.0		3.7	0	2.5								
PLAY	2.2	2.5	0.1	2.0	0	7.5	17.5	5.0		3.7	0	2.5								
STOP	2.2	2.5	0.1	2.0	0	7.5	17.3	5.0		3.7	0	2.5								
Ref No.	IC301									IC302										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	13.8	1.7	1.8	-0.1	1.2	1.2	2.5	14.7		4.8	1.2	1.2	-0.1	3.1	3.1	13.7	14.8			
PLAY	13.9	1.7	1.8	-0.1	1.2	1.2	2.5	14.8		4.8	1.2	1.2	-0.1	3.1	3.1	13.6	14.8			
STOP	13.9	1.7	1.8	-0.1	1.2	1.2	2.5	14.7		4.8	1.2	1.2	-0.1	3.1	3.1	13.6	14.7			
Ref No.	Q1				Q2					Q3				Q4				Q101		
MODE	E	C	B		E	C	B			S	G	D		E	C	B		E	C	B
REC	0	0	0.6		0	2.3	0.1			0.2	5.7	580		0	2.3	0		5.2	0.4	5.2
PLAY	0	0	0.6		0	2.3	0.1			0.2	5.2	515		0	2.2	0		5.2	0.4	5.2
STOP	0	0	0.6		0	2.2	0.1			0.2	5.5	538		0	2.2	0		5.2	0.4	5.2
Ref No.	Q102				Q103									Q104				Q105		
MODE	E	C	B		1	2	3	4	5	6	7	8		E	C	B		E	C	B
REC	0	5.2	0.4		13.0	13.0	13.0	12.5	12.0	12.0	12.0	12.0		0	0	0.7		0.6	0.7	2.7
PLAY	0	5.2	0.4		13.0	13.0	13.0	12.5	12.0	12.0	12.0	12.0		0	0	0.7		0.6	0.7	2.7
STOP	0	5.2	0.4		13.0	13.0	13.0	12.5	12.0	12.0	12.0	12.0		0	0	0.7		0.6	0.7	2.7
Ref No.	Q106				Q107									Q108				Q109		
MODE	E	C	B		1	2	3	4	5	6	7	8		E	C	B		E	C	B
REC	14.8	14.8	0		5.0	5.0	5.0	14.0	4.5	4.5	4.5	4.5		14.9	14.8	14.1		0	0.1	0.7
PLAY	14.8	14.8	0		5.0	5.0	5.0	14.0	4.5	4.5	4.5	4.5		14.8	14.8	14.1		0	0.1	0.7
STOP	14.8	14.7	0		5.0	5.0	5.0	14.0	4.5	4.5	4.5	4.5		14.8	14.7	14.0		0	0.1	0.7
Ref No.	Q301				Q302					Q303				Q304				Q305		
MODE	S	G	D		E	C	B			E	C	B		E	C	B		E	C	B
REC	2.0	7.3	4.8		7.3	14.8	6.8			7.3	-0.1	6.8		3.5	4.5	4.2		14.8	6.8	14.4
PLAY	2.0	7.2	4.9		7.1	14.8	6.7			7.2	-0.1	6.7		3.5	4.5	4.2		14.8	6.7	14.4
STOP	2.0	7.1	5.0		7.2	14.7	6.7			7.0	-0.1	6.7		3.5	4.5	4.2		14.8	6.7	14.4
Ref No.	Q306				Q307					Q308				Q309						
MODE	E	C	B		E	C	B			E	C	B		E	C	B				
REC	4.2	13.6	4.8		-0.1	7.8	0.2			14.8	14.4	14.5		14.8	0	14.4				
PLAY	4.2	13.6	4.8		-0.1	7.8	0.2			14.8	14.4	14.5		14.8	0	14.4				
STOP	4.2	13.6	4.8		-0.1	8.0	0.2			14.7	14.4	14.5		14.7	1.2	14.4				

Ref No.	IC3901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.5	5.5	0	0	1.6	0	2.1	0	0	5.5	5.5	4.9	2.2	12.0	5.5	5.5	0	1.8	3.5	0
PLAY	5.5	5.5	0	0	1.5	0	2.1	0	0	5.5	5.5	4.9	2.1	12.0	5.5	5.5	0	1.8	3.5	11.6
STOP	5.5	5.5	0	0	1.6	0	2.1	0	0	5.5	5.5	4.9	2.2	12.0	5.5	5.5	0	1.8	3.5	0

Ref No.	IC3901																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	4.2	4.4	1.7	5.0	2.0	2.0	0	1.7	5.0	4.9	4.9	0	5.5	5.5	0	5.5	5.5	0	4.9	4.9
PLAY	4.2	4.4	1.7	5.0	2.0	2.0	0	1.7	5.0	4.9	4.9	0	5.5	5.5	0.1	5.5	5.5	0	4.9	4.9
STOP	4.2	4.4	1.7	5.0	2.0	2.0	0	1.7	5.0	4.9	4.9	0	5.5	5.5	0	5.5	5.5	0	4.9	4.9

Ref No.	IC3901			
MODE	41	42	43	44
REC	0	4.9	4.9	0
PLAY	0	4.9	4.9	0
STOP	0	4.9	4.9	0

Ref No.	IC3902																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0	0.7	0	0.7	0	-	0.7	0	2.3	2.4	-	2.3	2.4	2.3	2.4	5.0				
PLAY	0	0.7	0	0.7	0	-	0.7	0	2.3	2.4	-	2.3	2.4	2.3	2.4	5.0				
STOP	0	0.7	0	0.7	0	-	0.7	0	2.3	2.4	-	2.3	2.4	2.3	2.4	5.0				

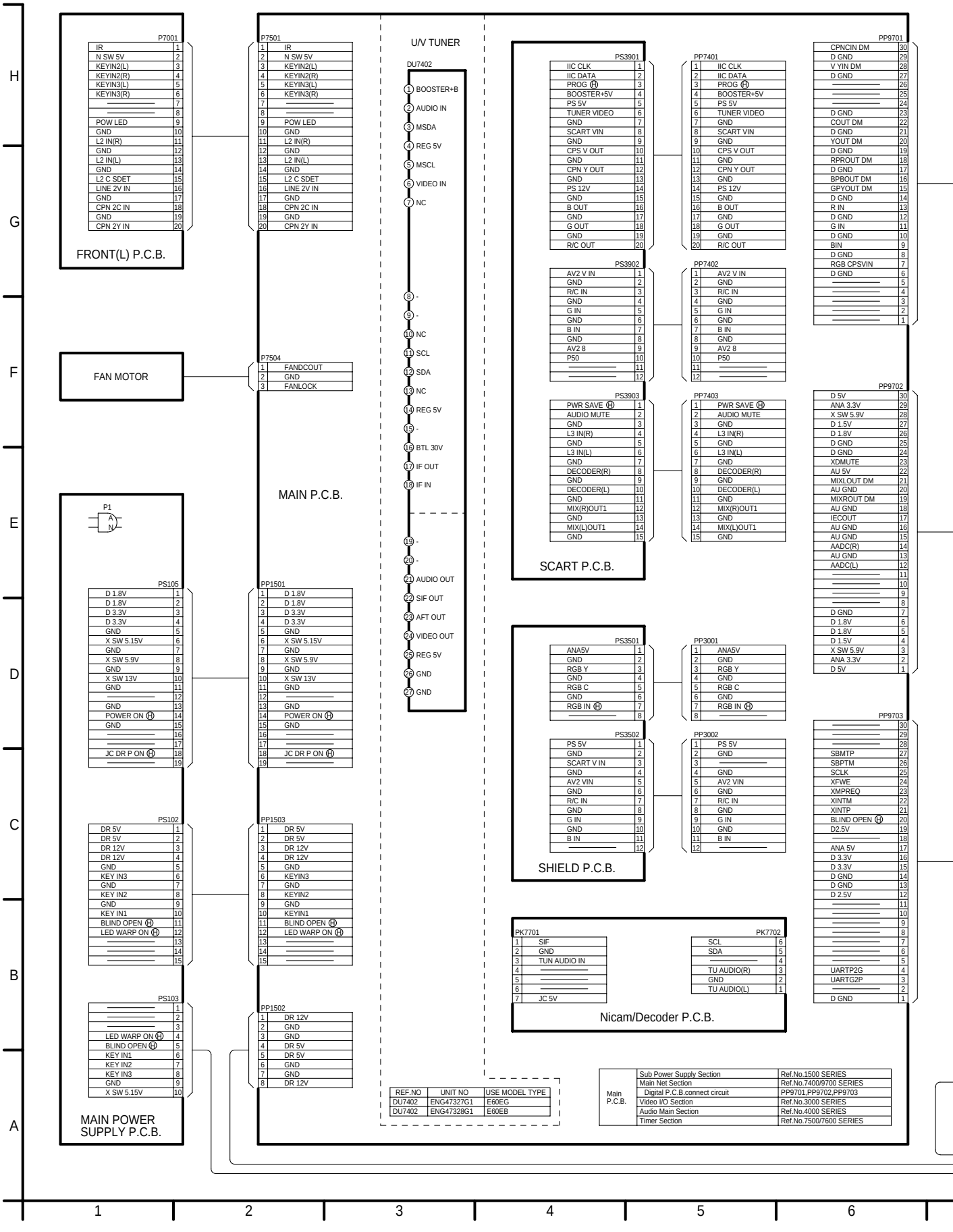
Ref No.	Q3901				Q3905				Q3906				Q3908				Q3909			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	2.1	5.0	2.7		0.3	0.3	0		5.0	0.2	5.0		5.0	-0.2	5.0		0	0	-0.1	
PLAY	2.1	5.0	2.7		0.3	0.3	0		5.0	0.3	5.0		5.0	-0.2	5.0		0	0	-0.4	
STOP	2.1	5.0	2.7		0.2	0.2	0		5.0	0.2	5.0		5.0	-0.3	5.0		0	0	-0.3	

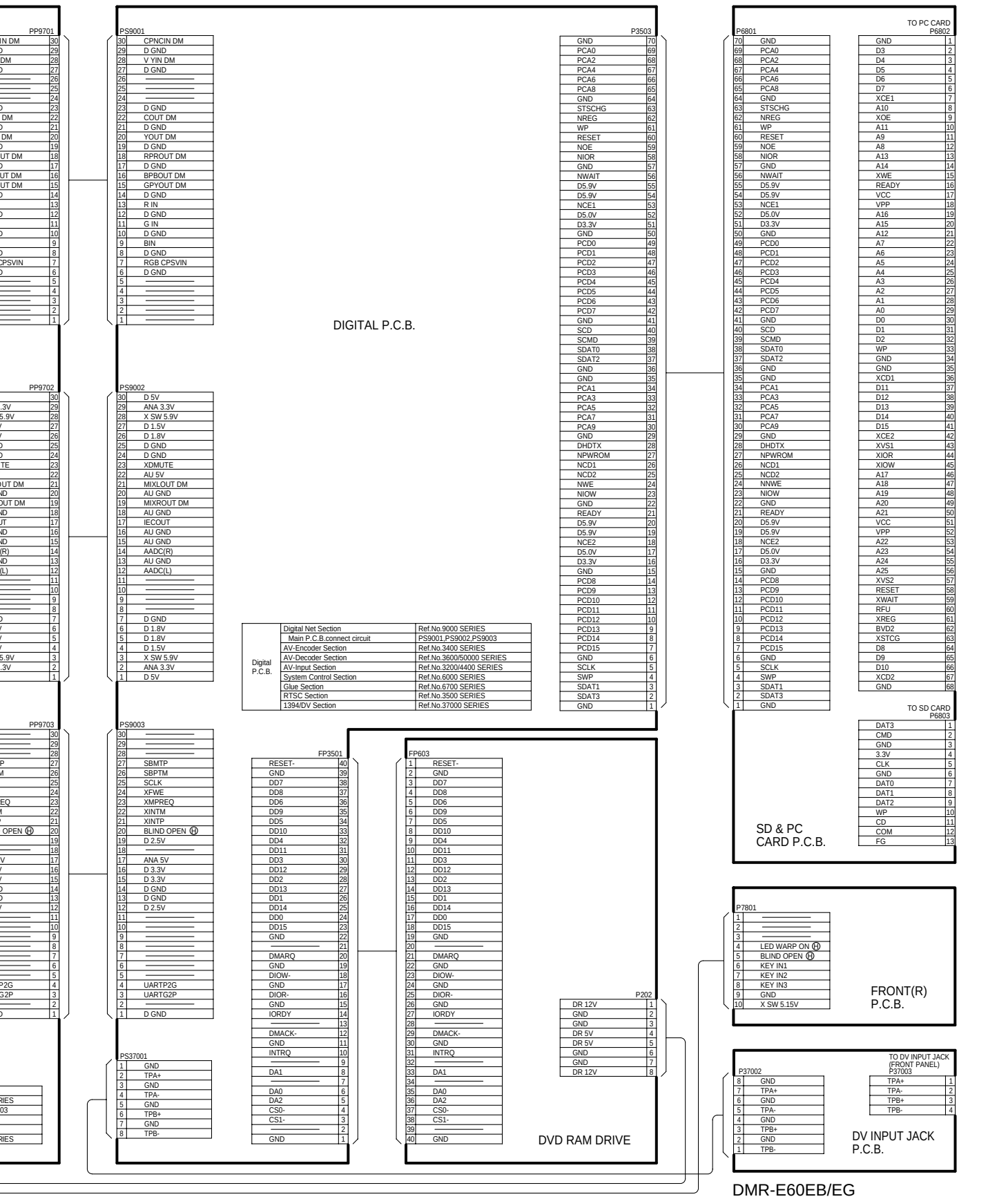
Ref No.	Q3910		
MODE	E	C	B
REC	0	0	-0.3
PLAY	0	0	-0.4
STOP	0	0	-0.3

Ref No.	QR3908				QR3909				QR3913				QR3914				QR3915			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	3.5		0	5.0	0		0	5.0	0		0.3	4.2	0		0.3	4.4	0	
PLAY	0	0	3.5		0	5.0	0		0	5.0	0.2		0.3	4.2	0		0.3	4.3	0	
STOP	0	0	3.5		0	5.0	0		0	5.0	0		0.2	4.2	0		0.2	4.4	0	

14 Schematic Diagram

14.1. Interconnection Schematic Diagram



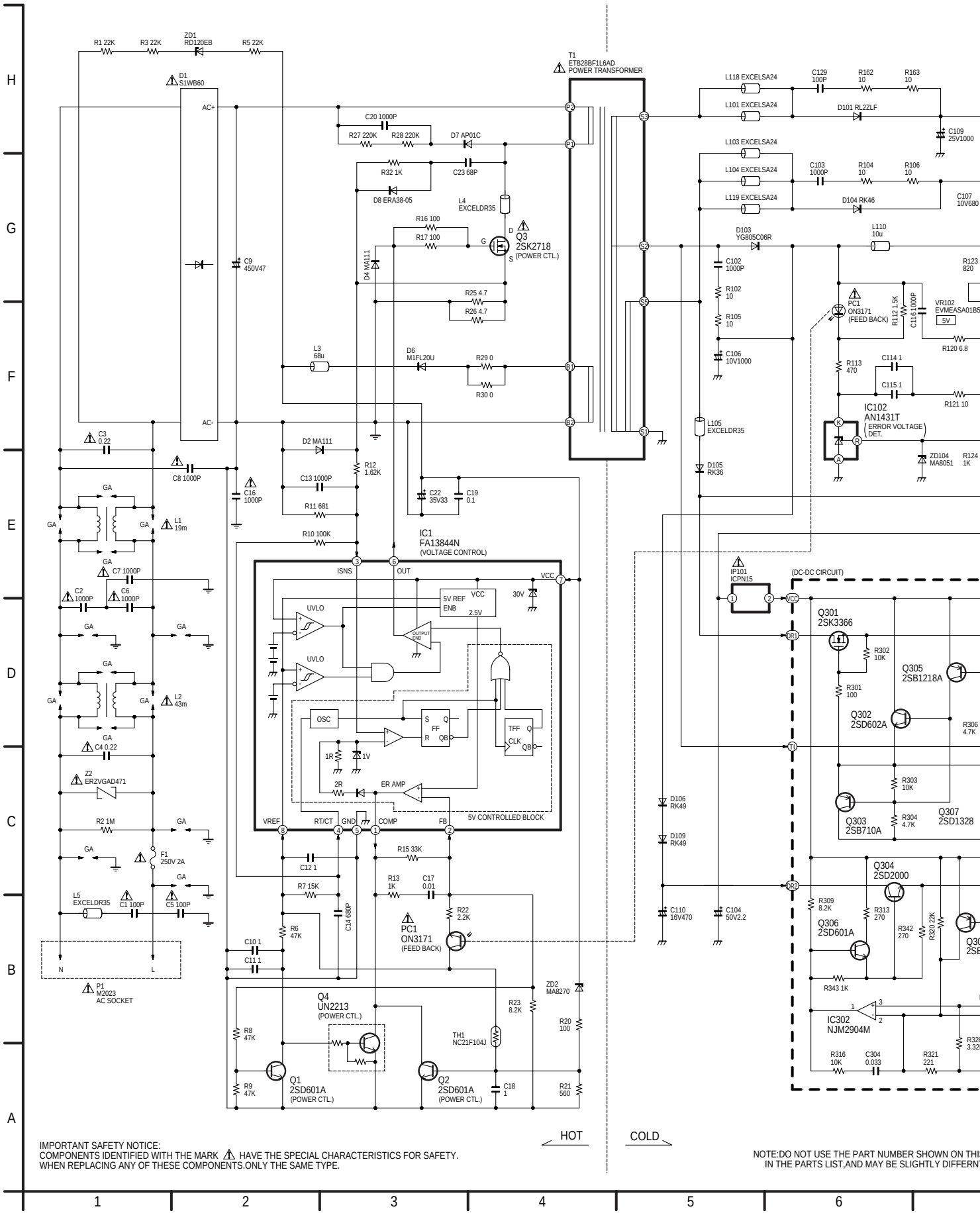


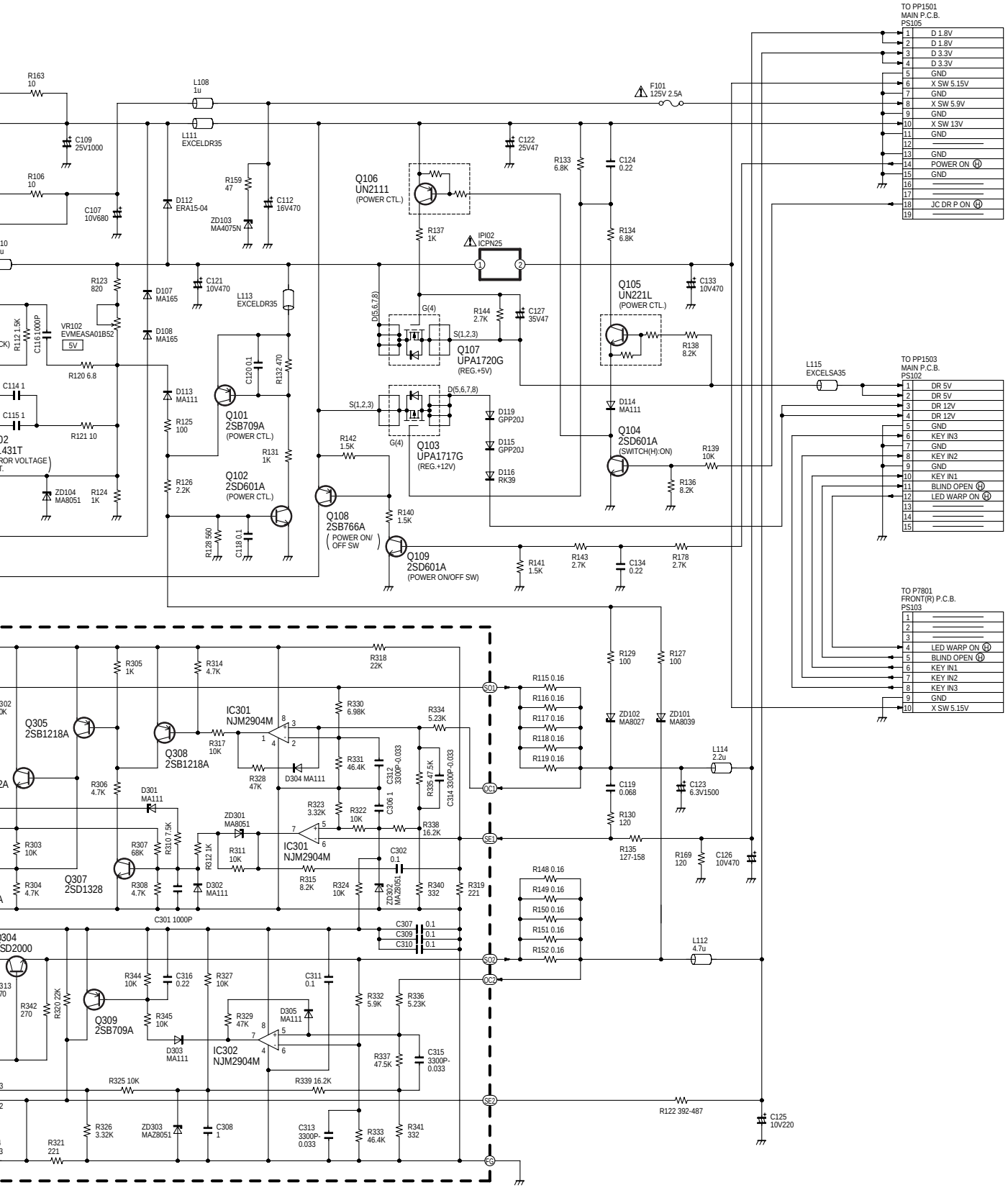
DMR-E60EB/EG
Interconnection Schematic Diagram

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

6 7 8 9 10 11 12

14.2. Main Power Supply Schematic Diagram (Main Power Supply P.C.B.)



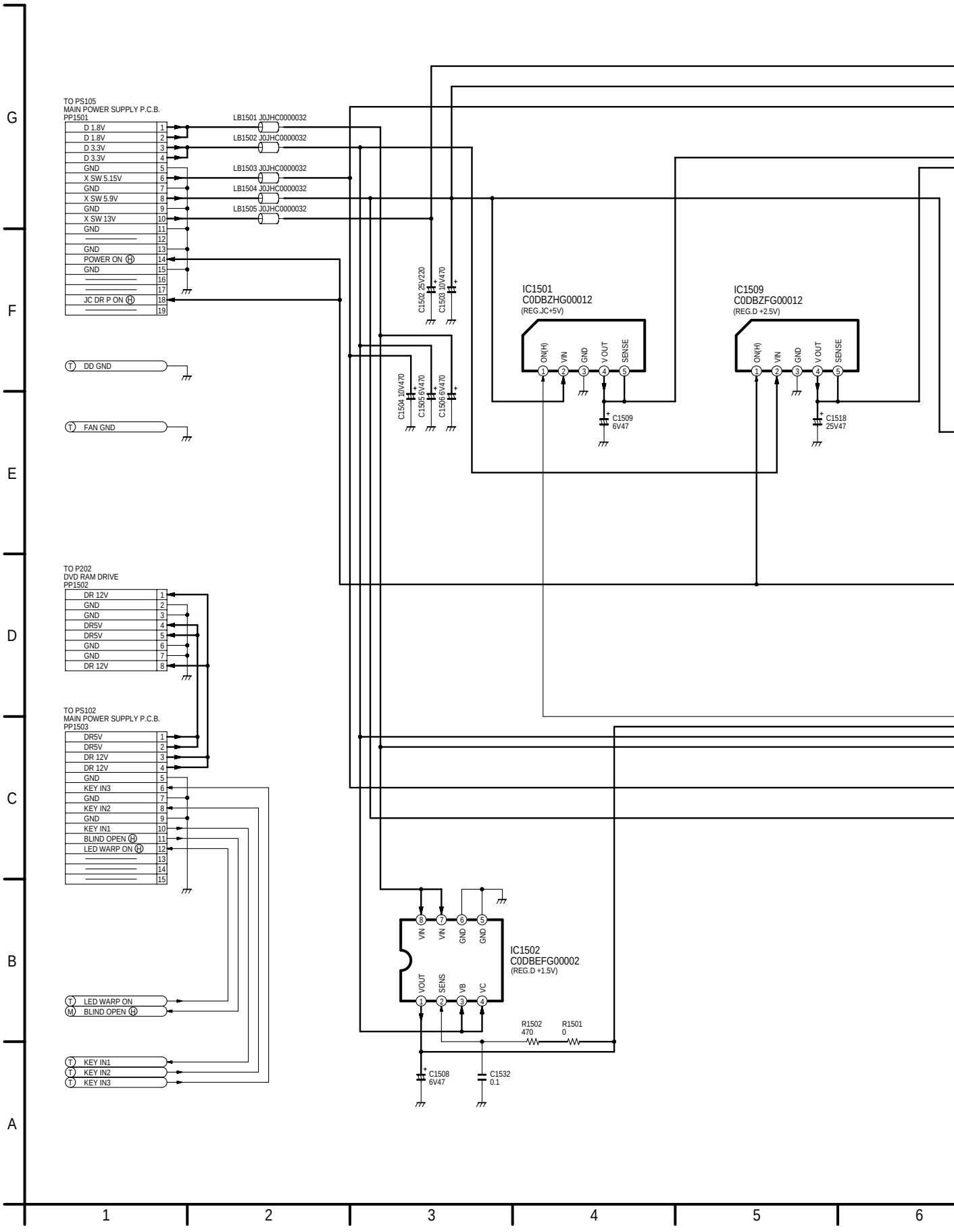


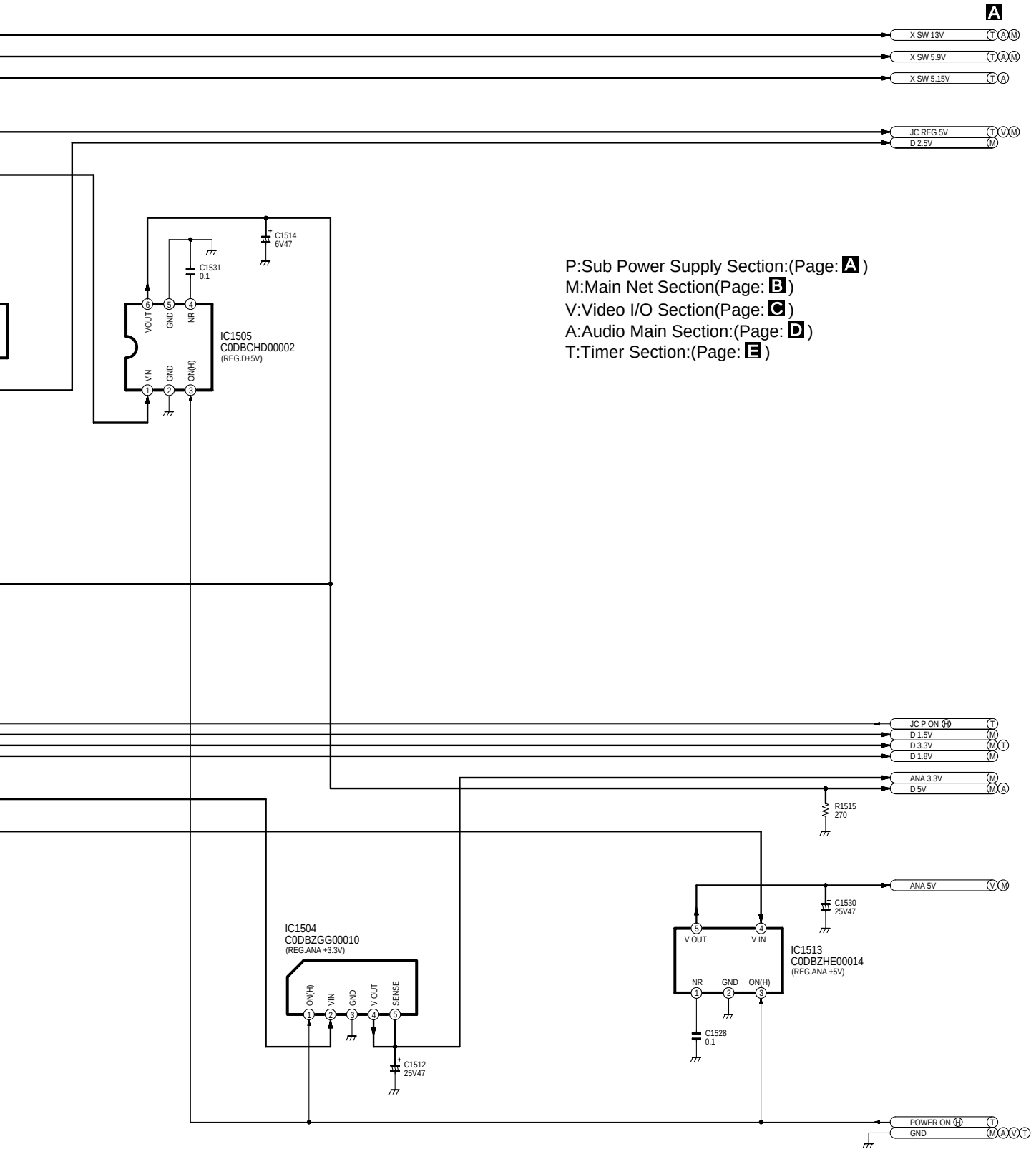
NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
Y BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Main Power Supply
Schematic Diagram

7 8 9 10 11 12

14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)



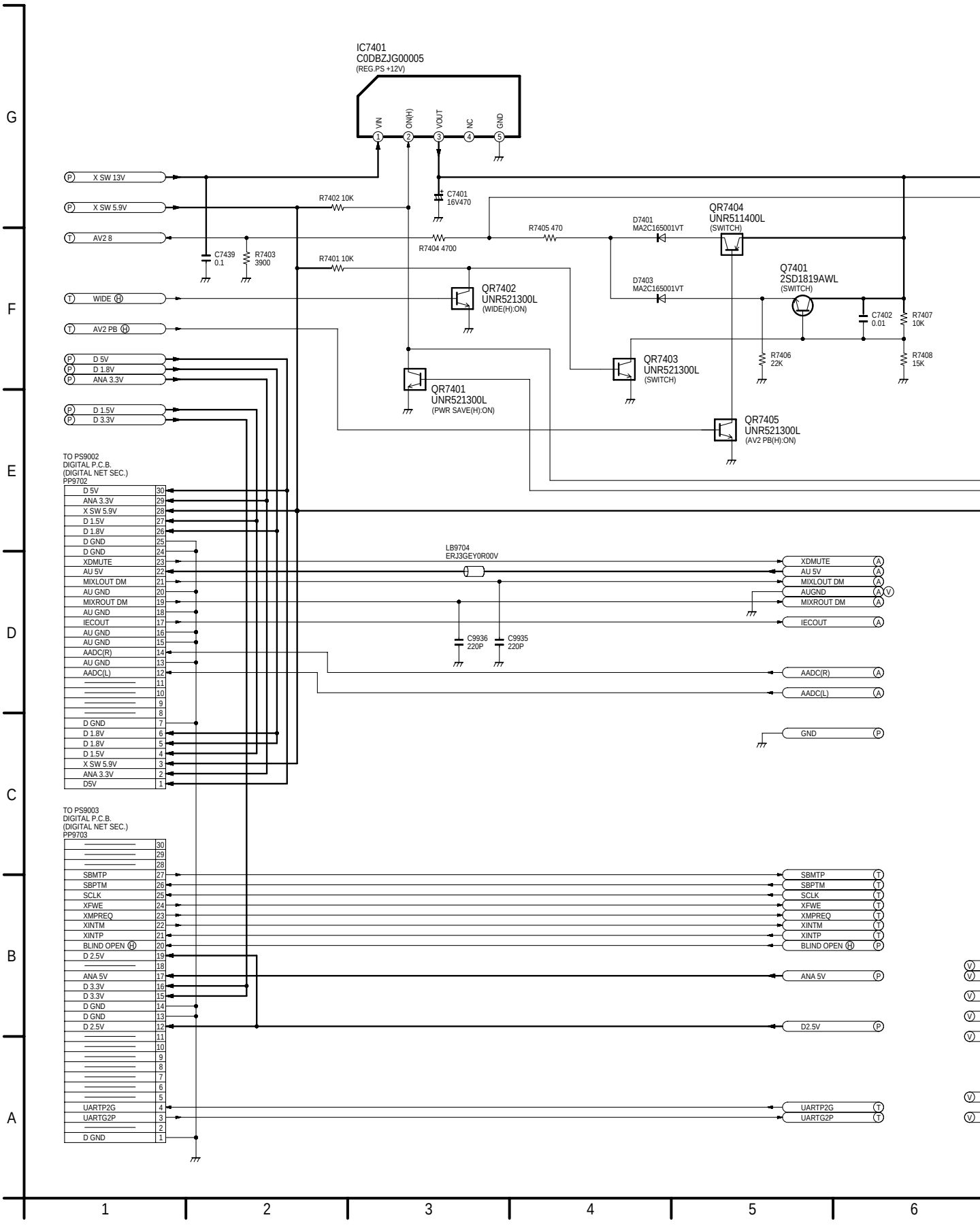


DMR-E60EB/EG
Sub Power Supply Section
(Main P.C.B.(1/5))
Schematic Diagram(P)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

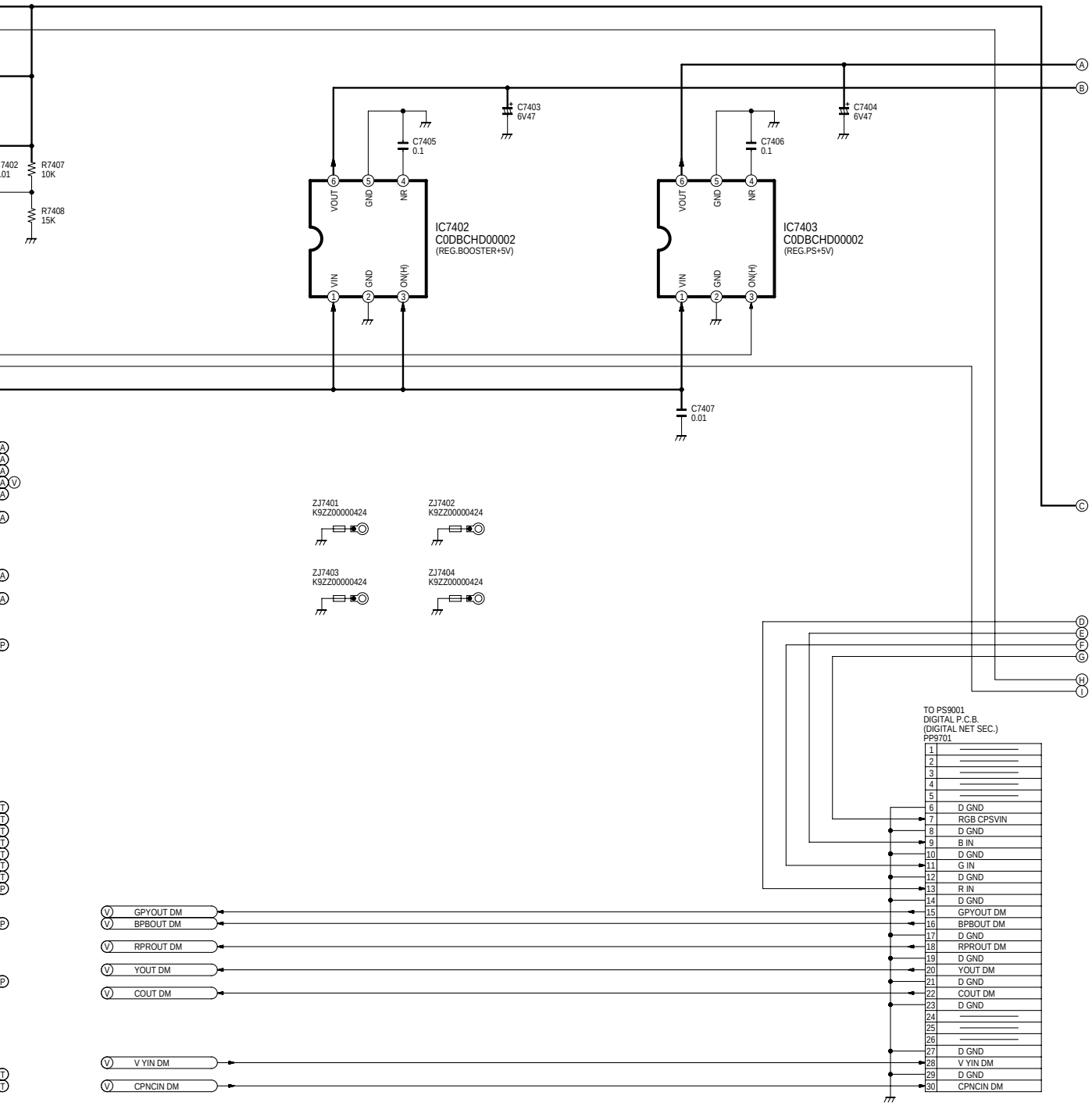
6 | 7 | 8 | 9 | 10 | 11

14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)



P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)

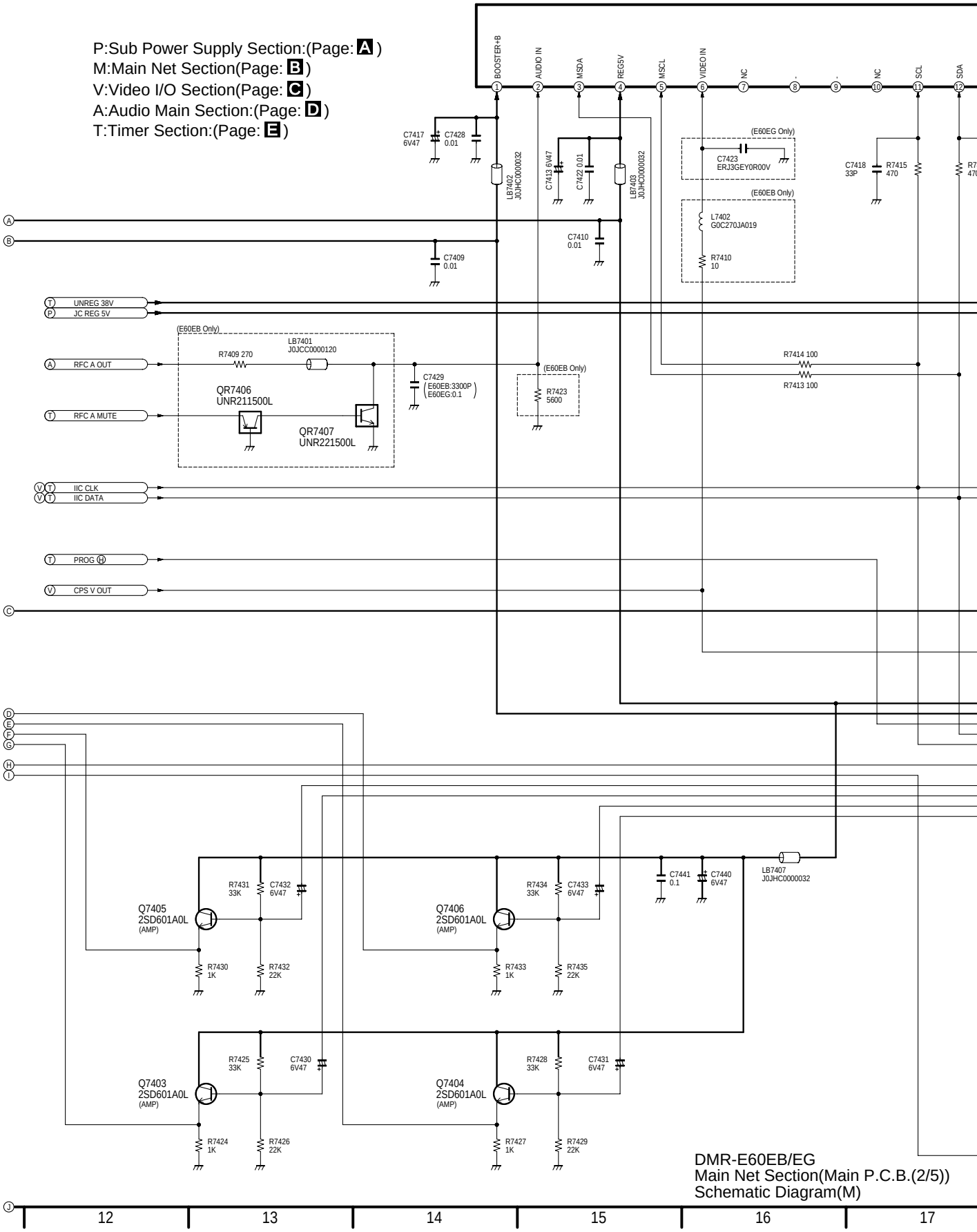
B



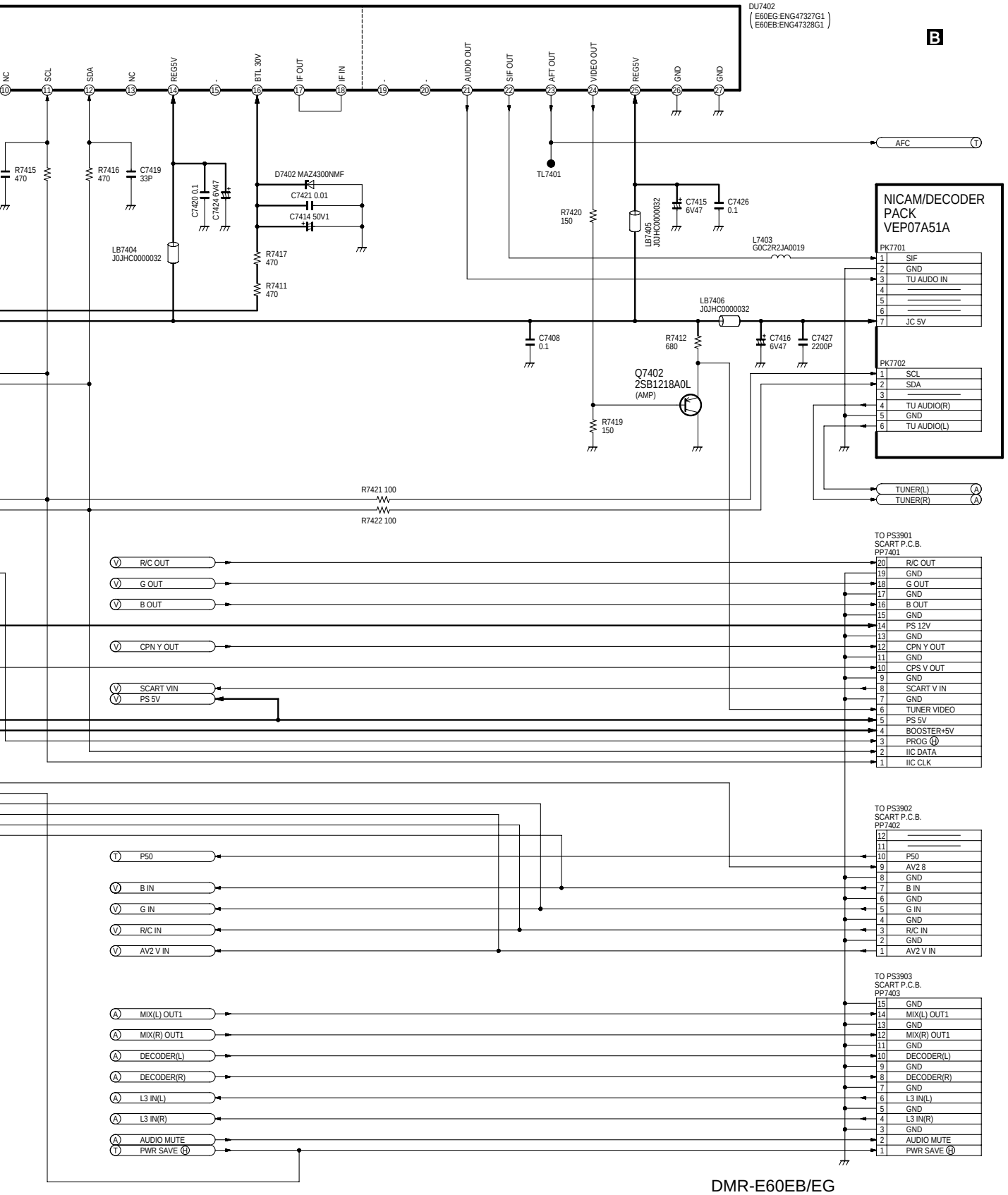
DMR-E60EB/EG
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

6 | 7 | 8 | 9 | 10 | 11

P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)



DMR-E60EB/EG
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

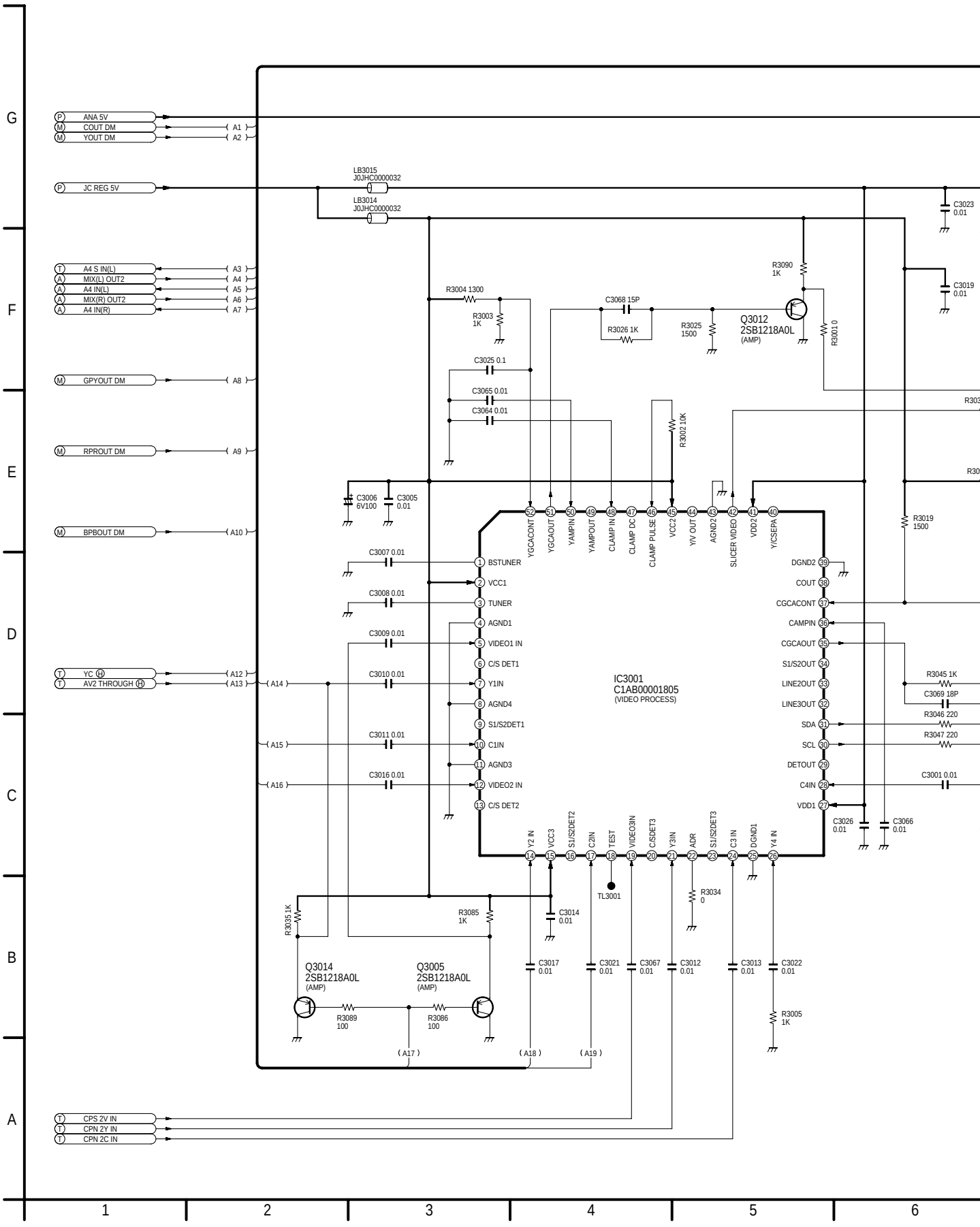


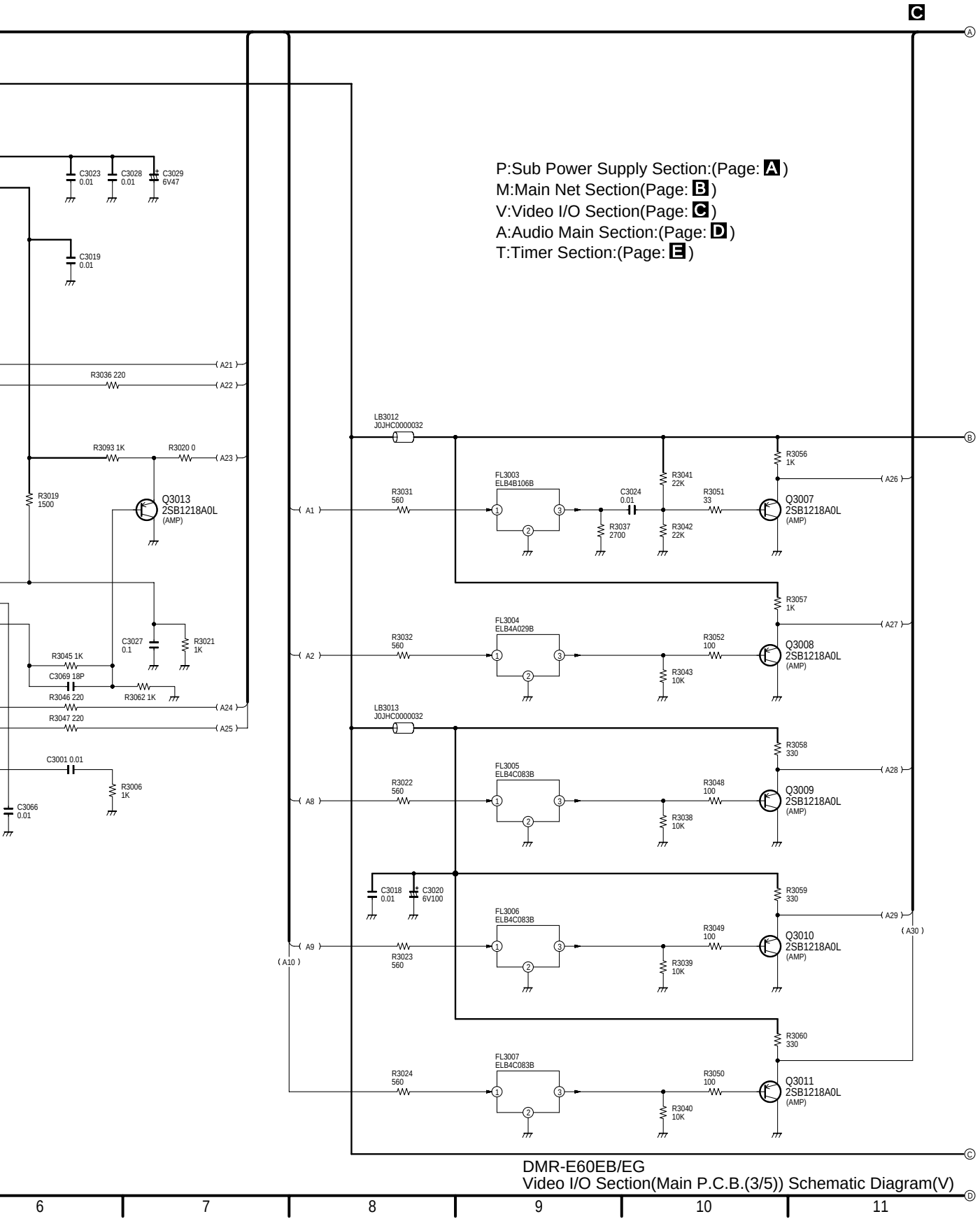
P.C.B.(2/5))

DMR-E60EB/EG
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

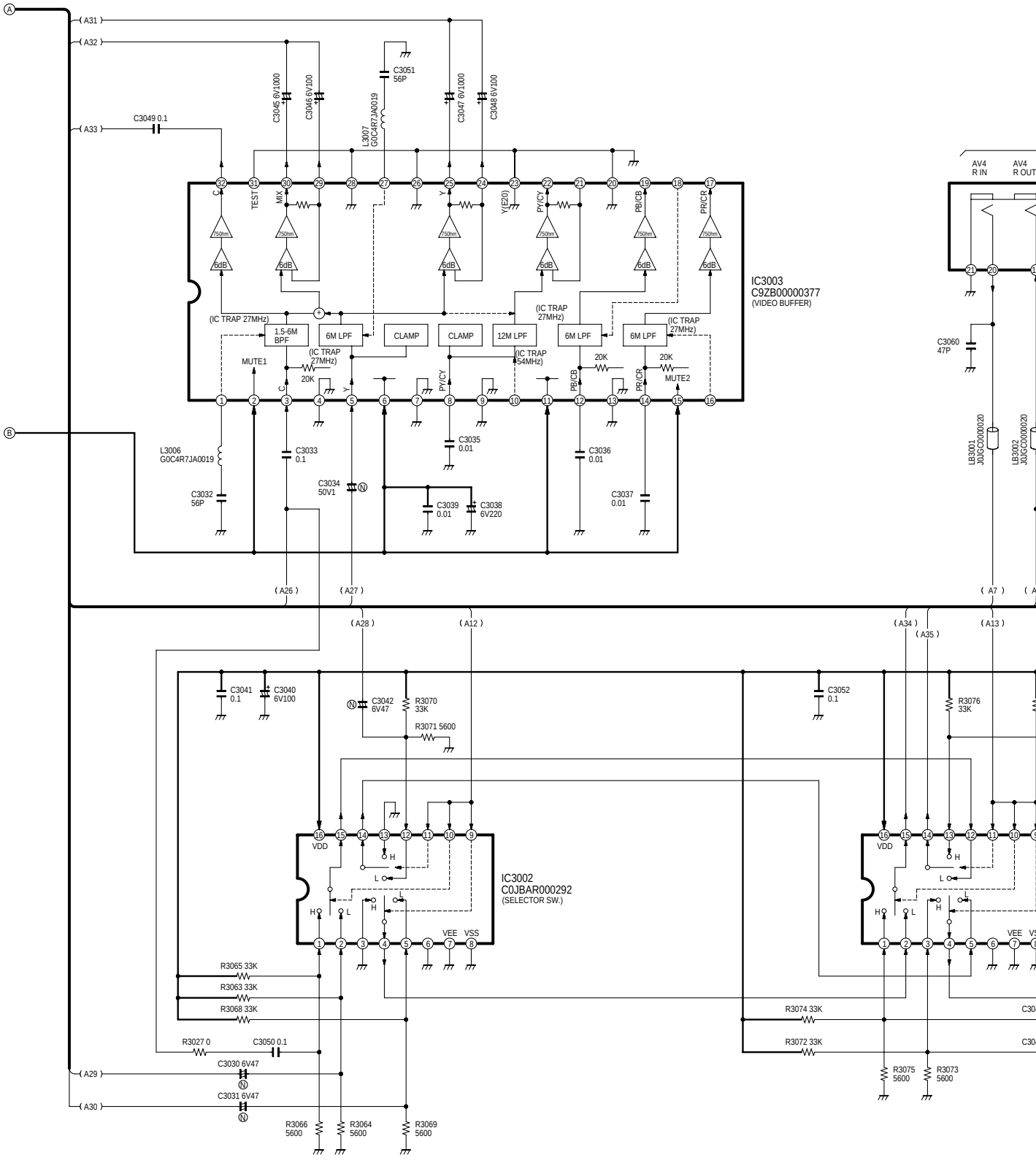
17 | 18 | 19 | 20 | 21 | 22

14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)





DMR-E60EB/EG
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)



DMR-E60EB/EG
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

NOTE:D
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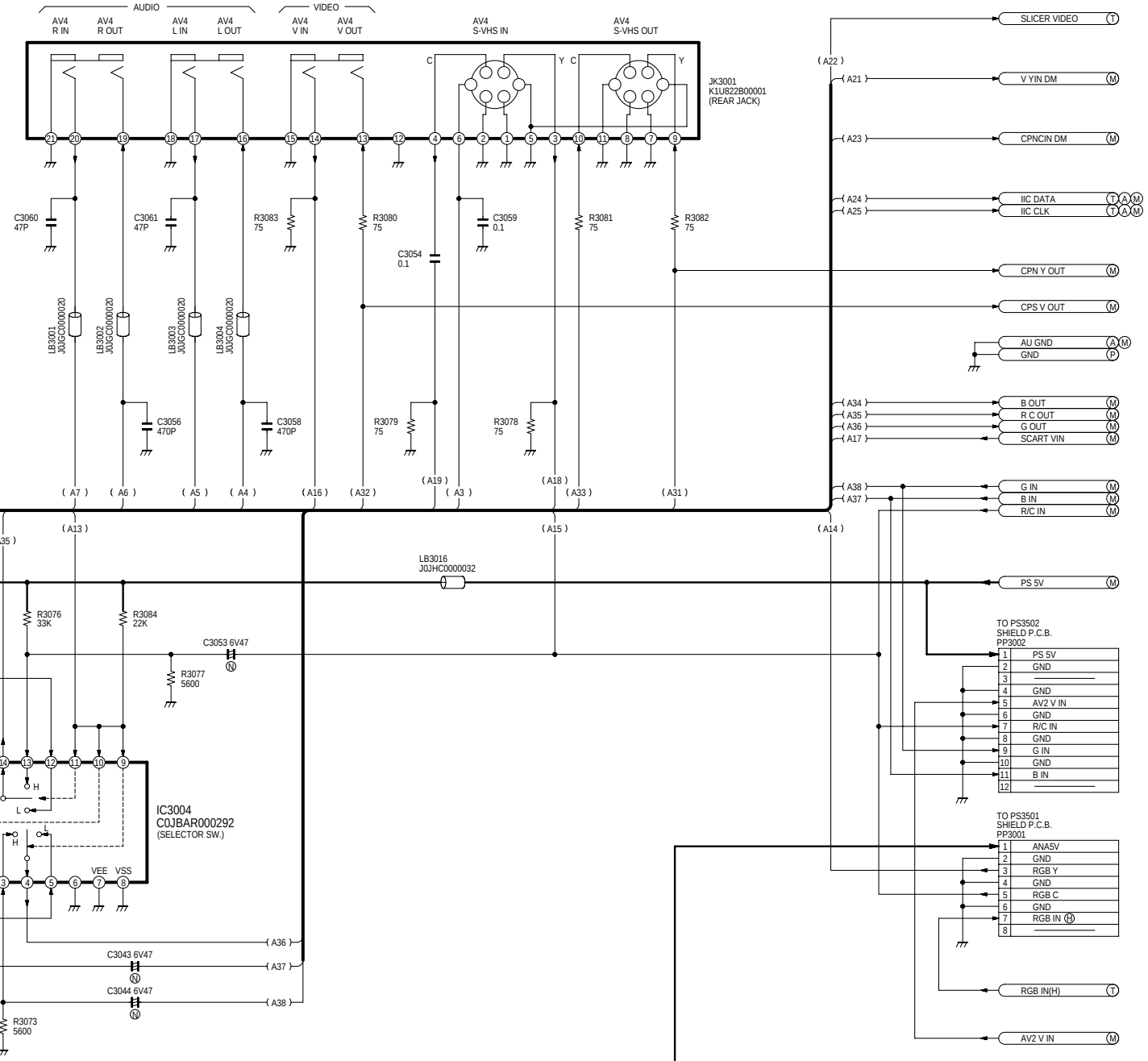
12 13 14 15 16 17

C

P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)



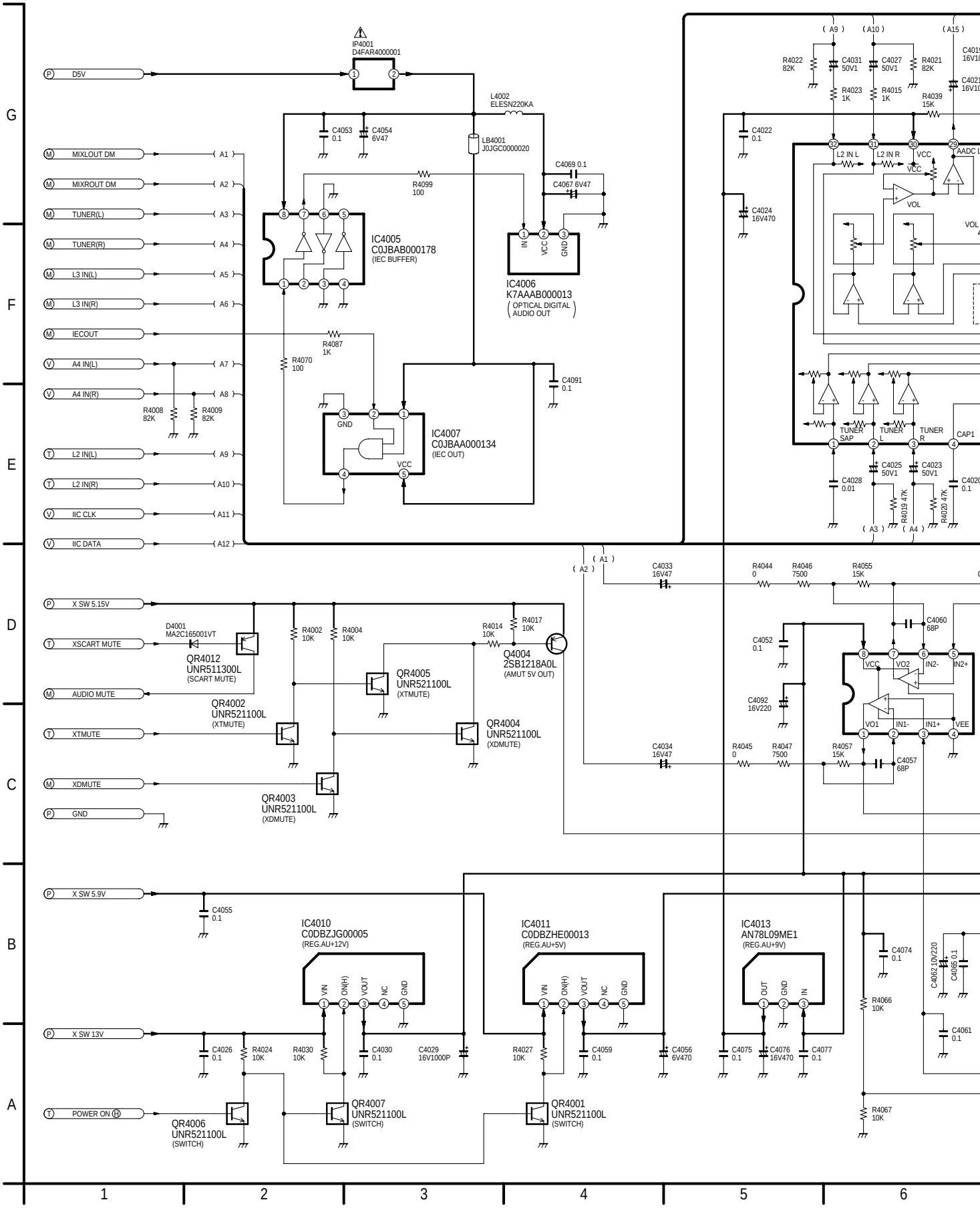
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

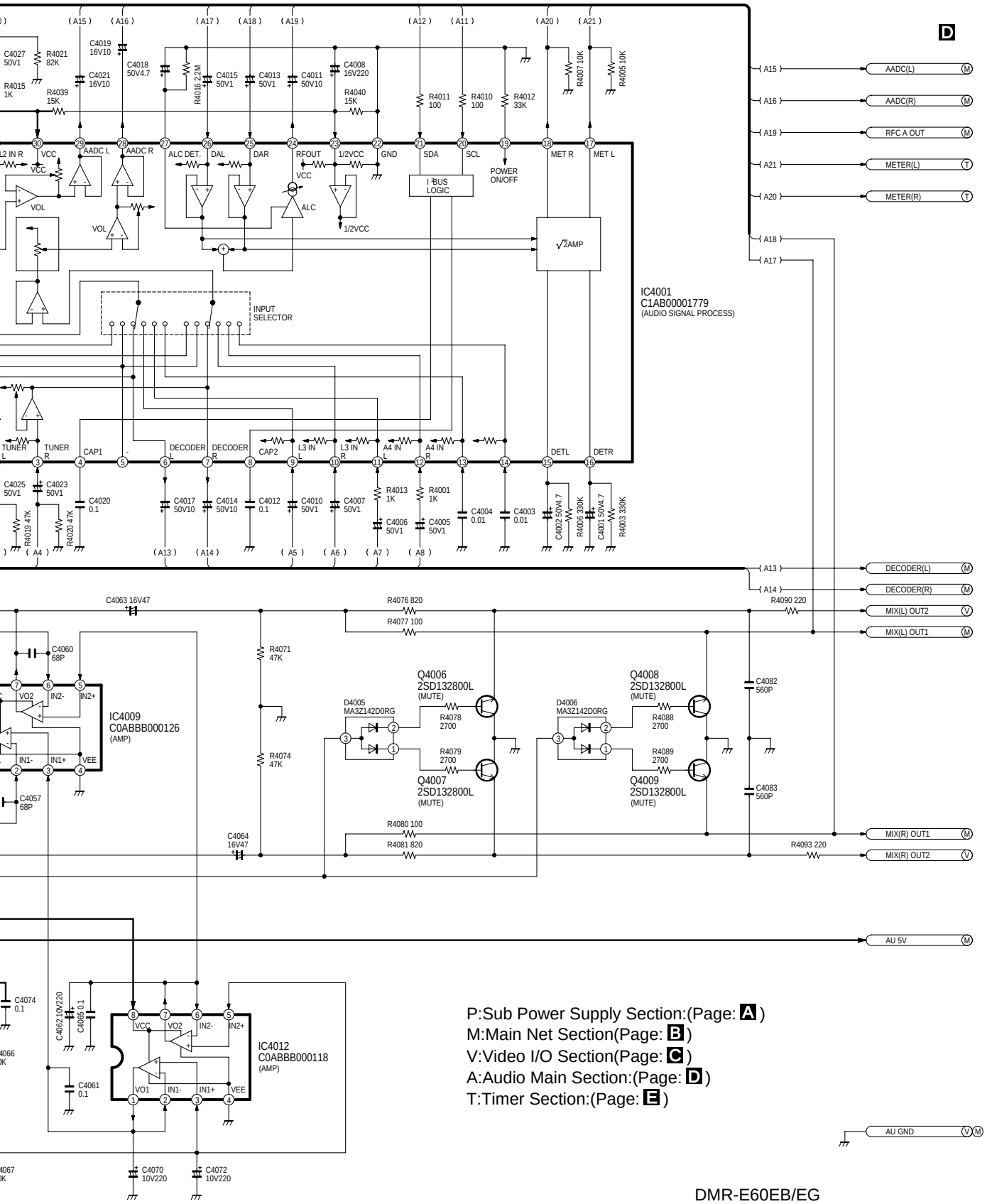
DMR-E60EB/EG
Video I/O Section(Main P.C.B.(3/5))
Schematic Diagram(V)

m(V)

17 | 18 | 19 | 20 | 21 | 22

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)





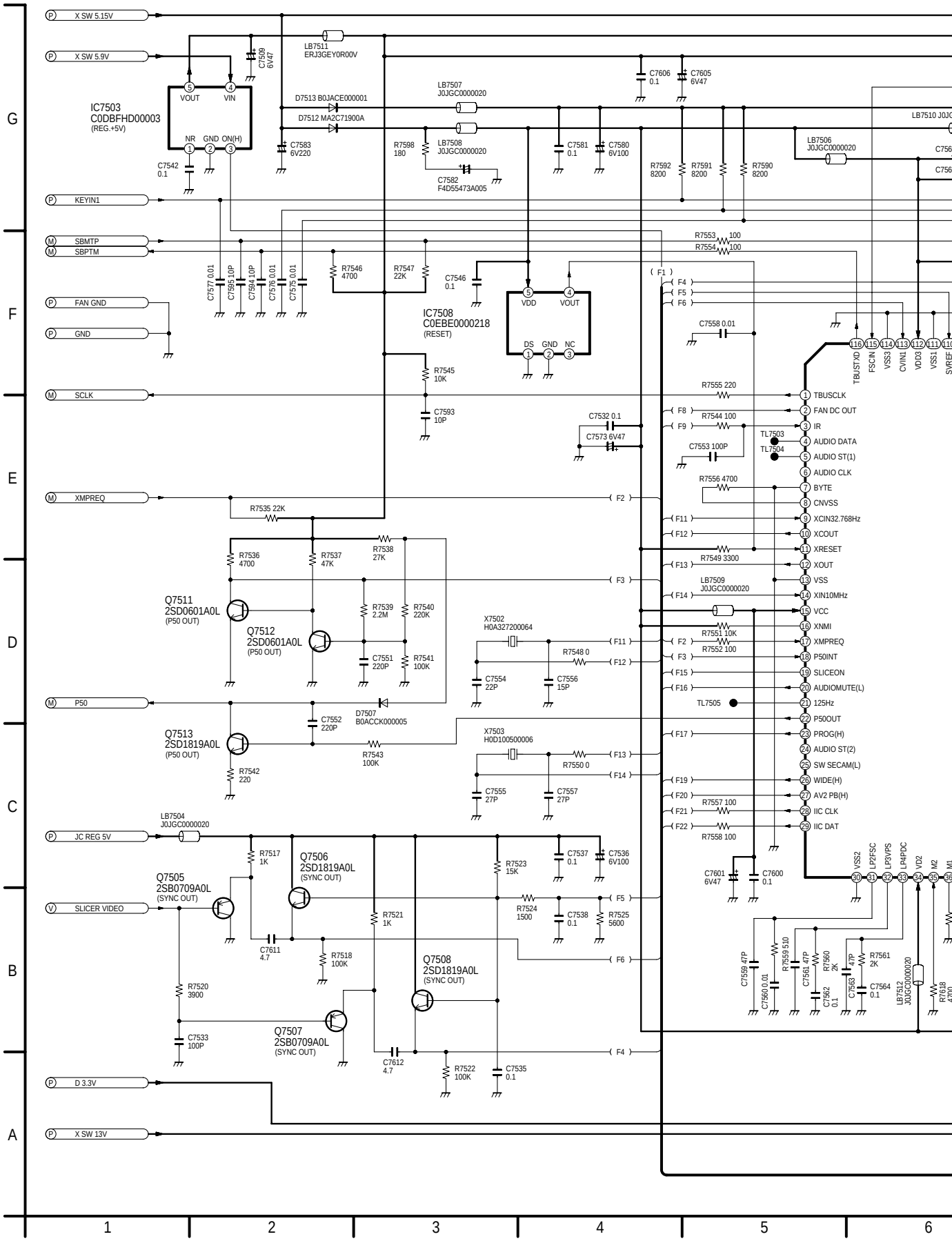
P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)

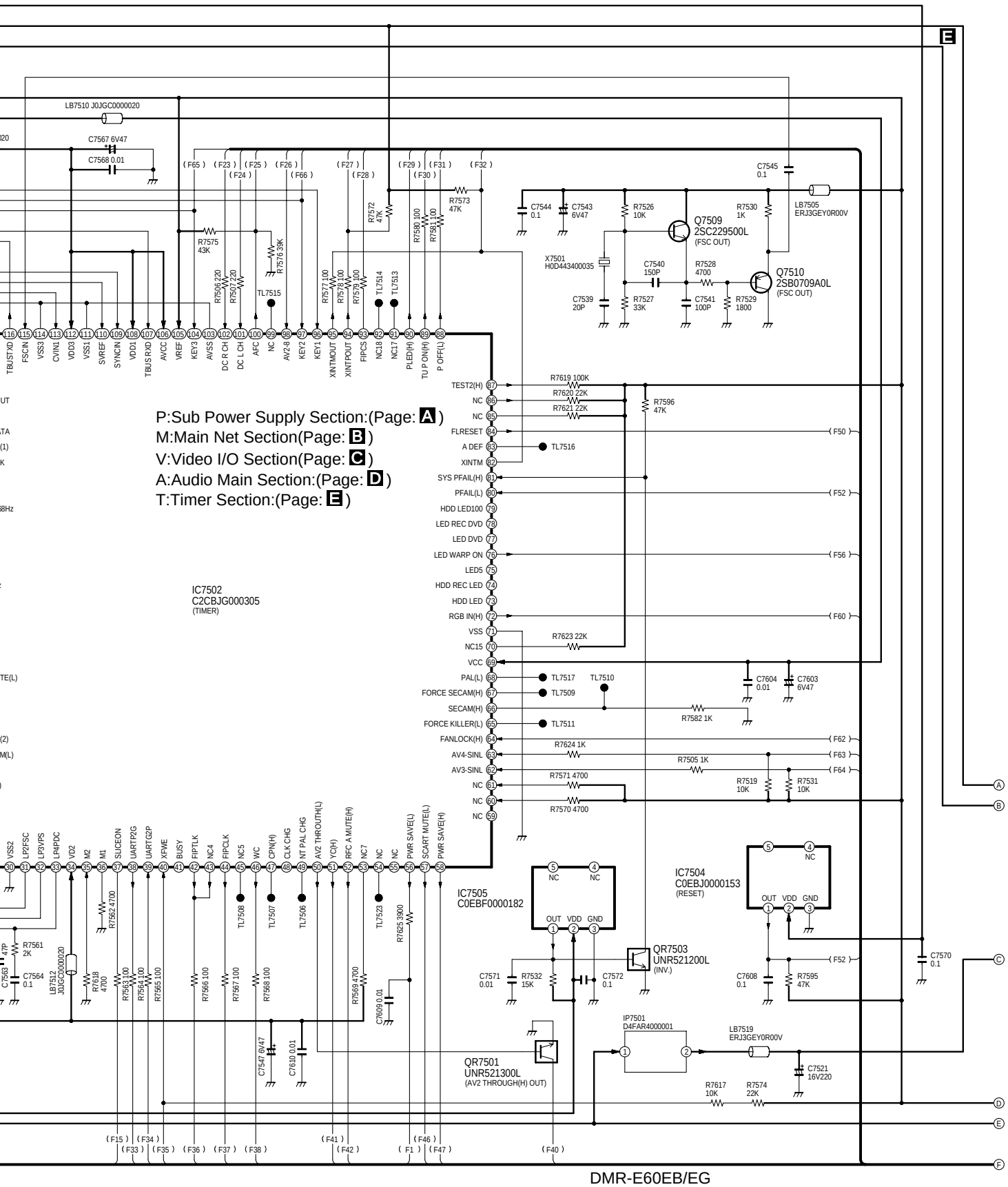
DMR-E60EB/EG
Audio Main Section(Main P.C.B.(4/5))
Schematic Diagram(A)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

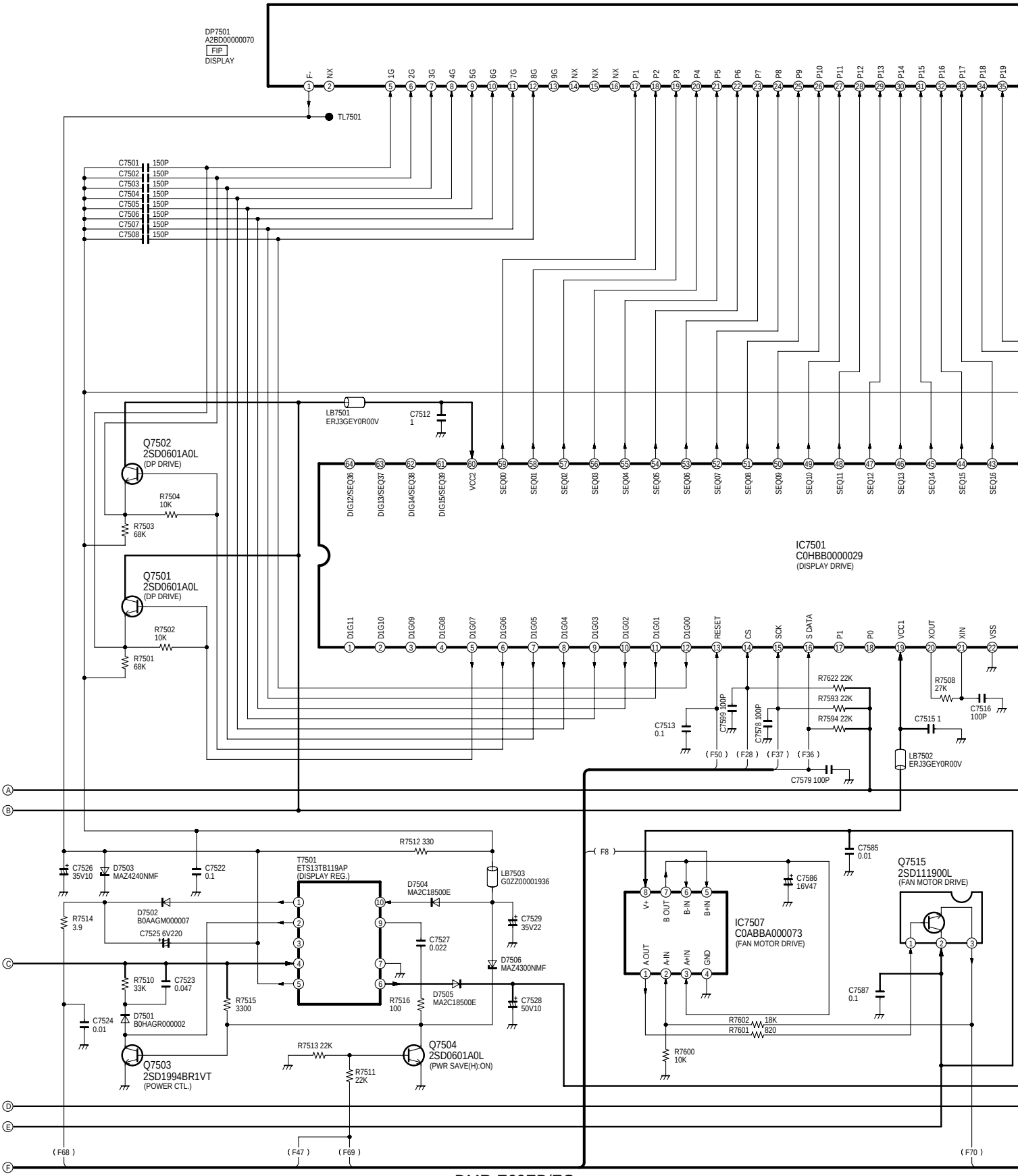
6 | 7 | 8 | 9 | 10 | 11

14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)





DMR-E60EB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)



DMR-E60EB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

NOTE:DO NOT
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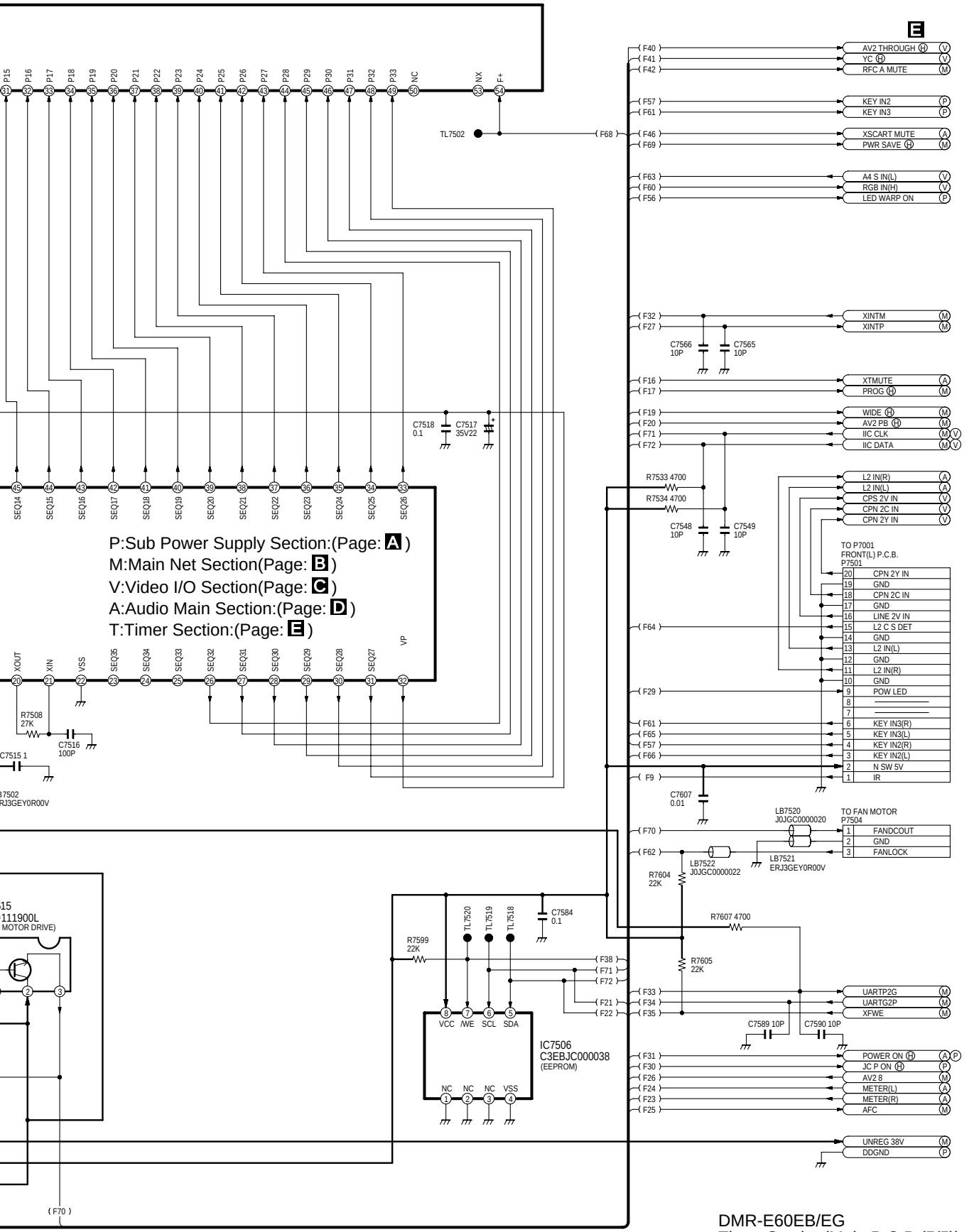
12 13 14 15 16 17

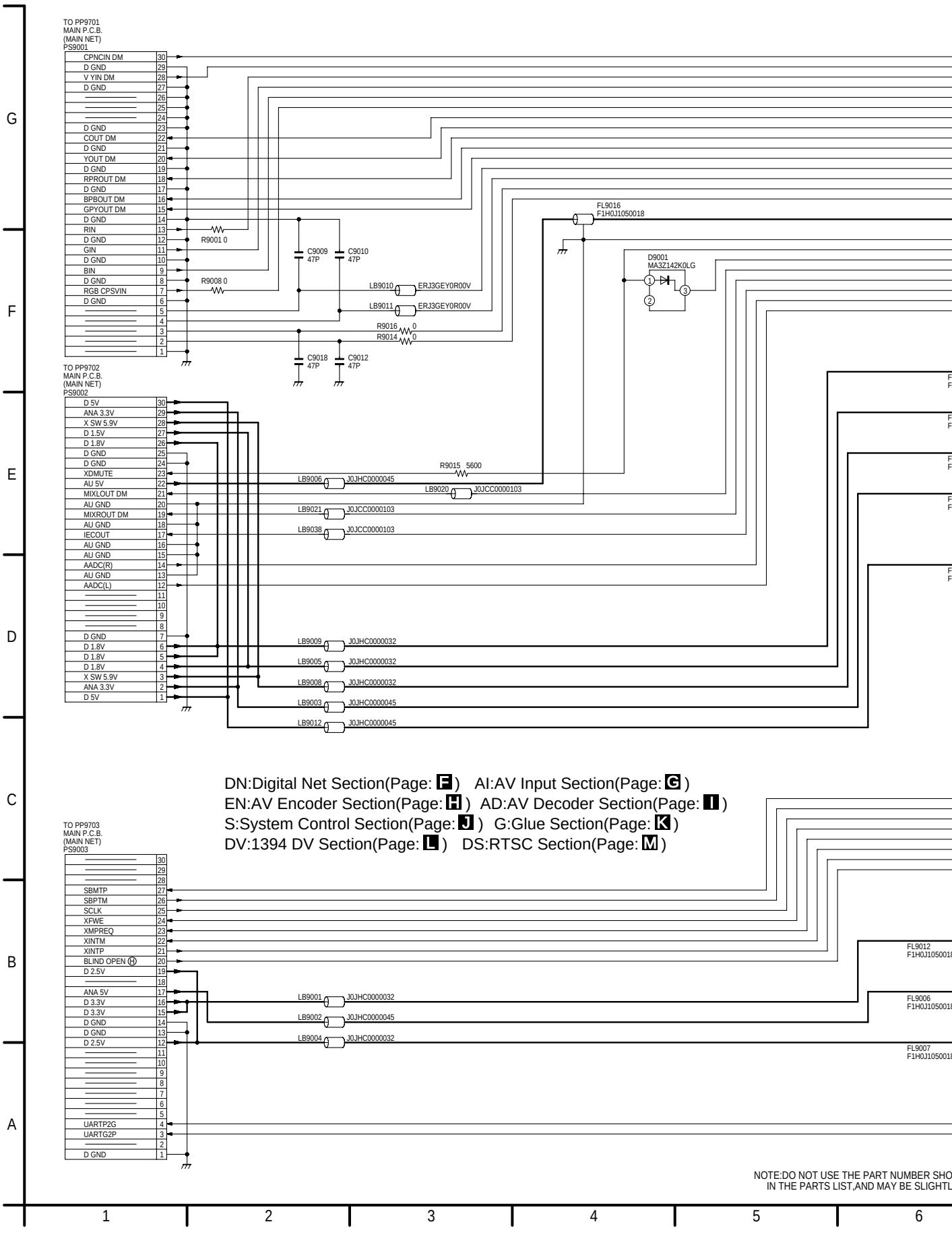


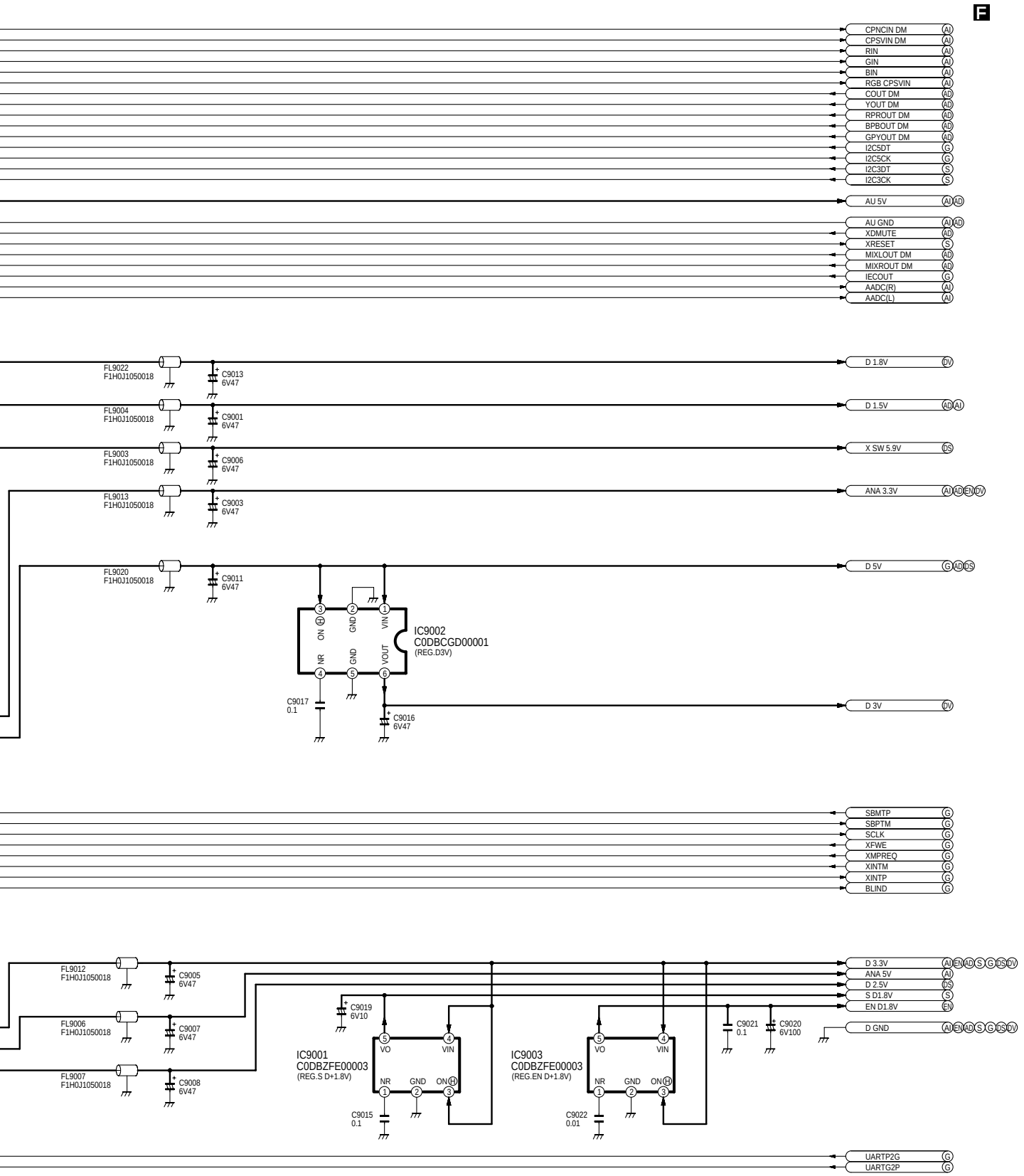
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Timer Section(Main P.C.B.(5/5))
Schematic Diagram(T)

18 19 20 21 22

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/6)



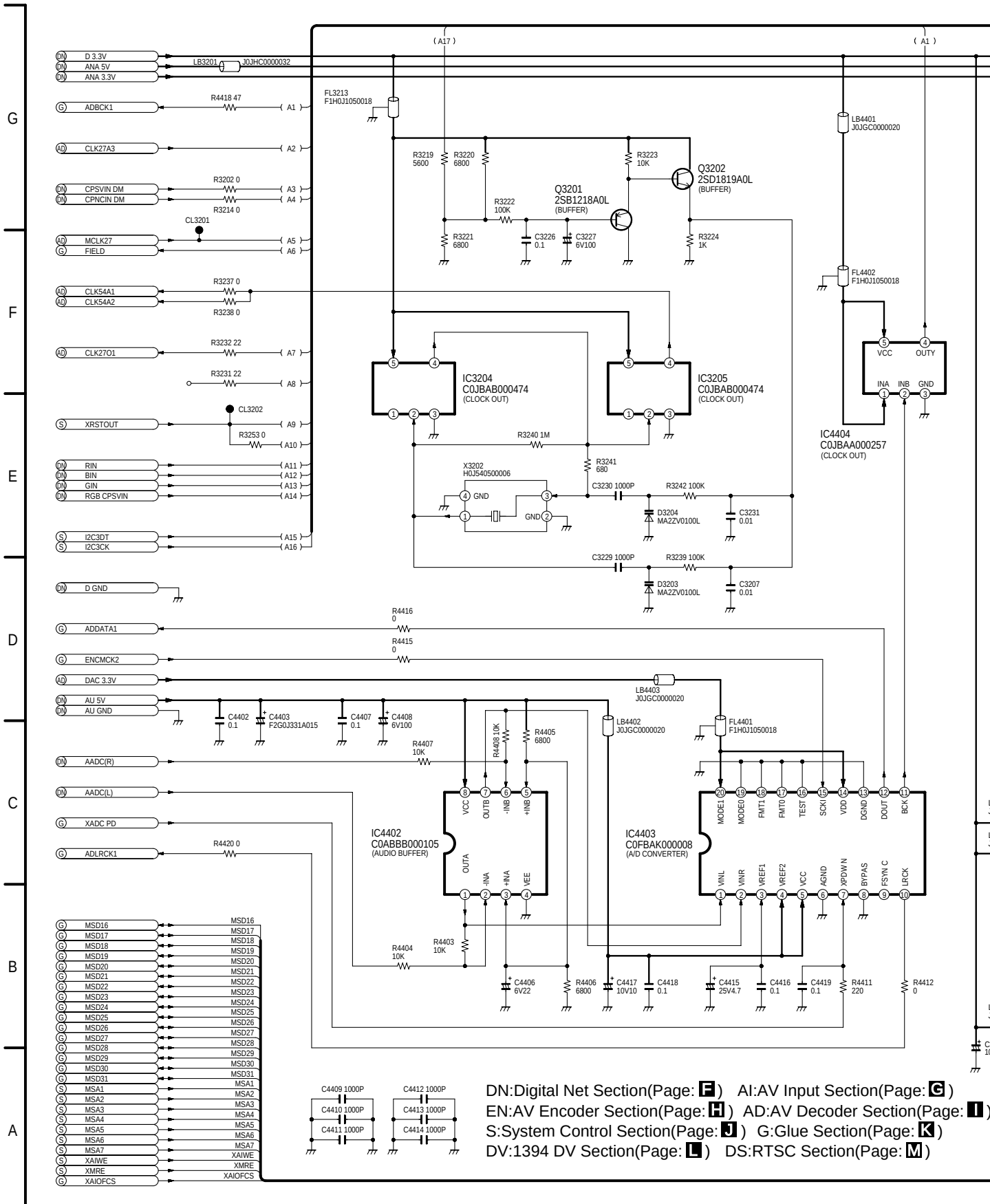


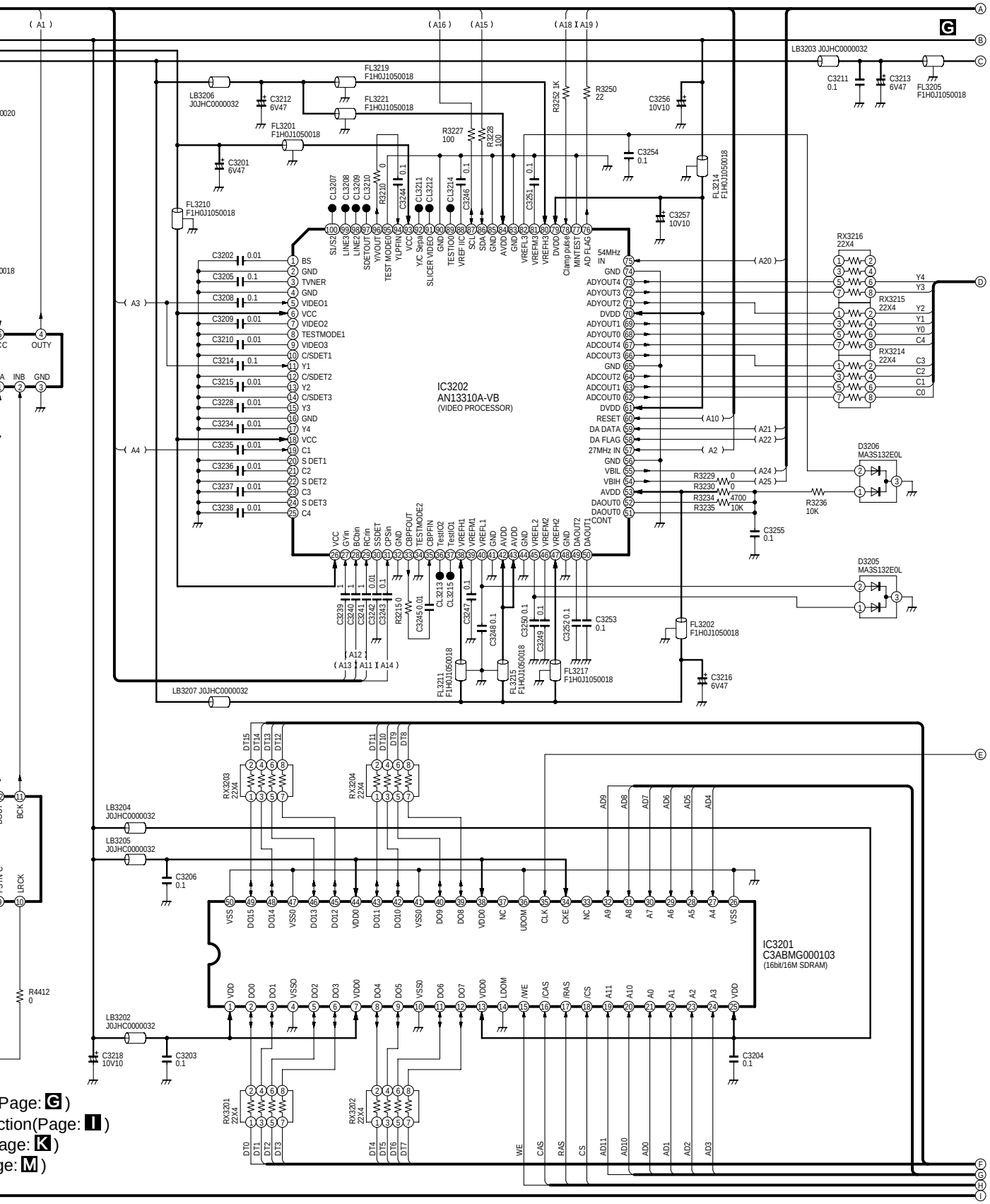
HE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
T,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Digital Net Section(Digital P.C.B.(1/8))
Schematic Diagram(DN)

6 | 7 | 8 | 9 | 10 | 11

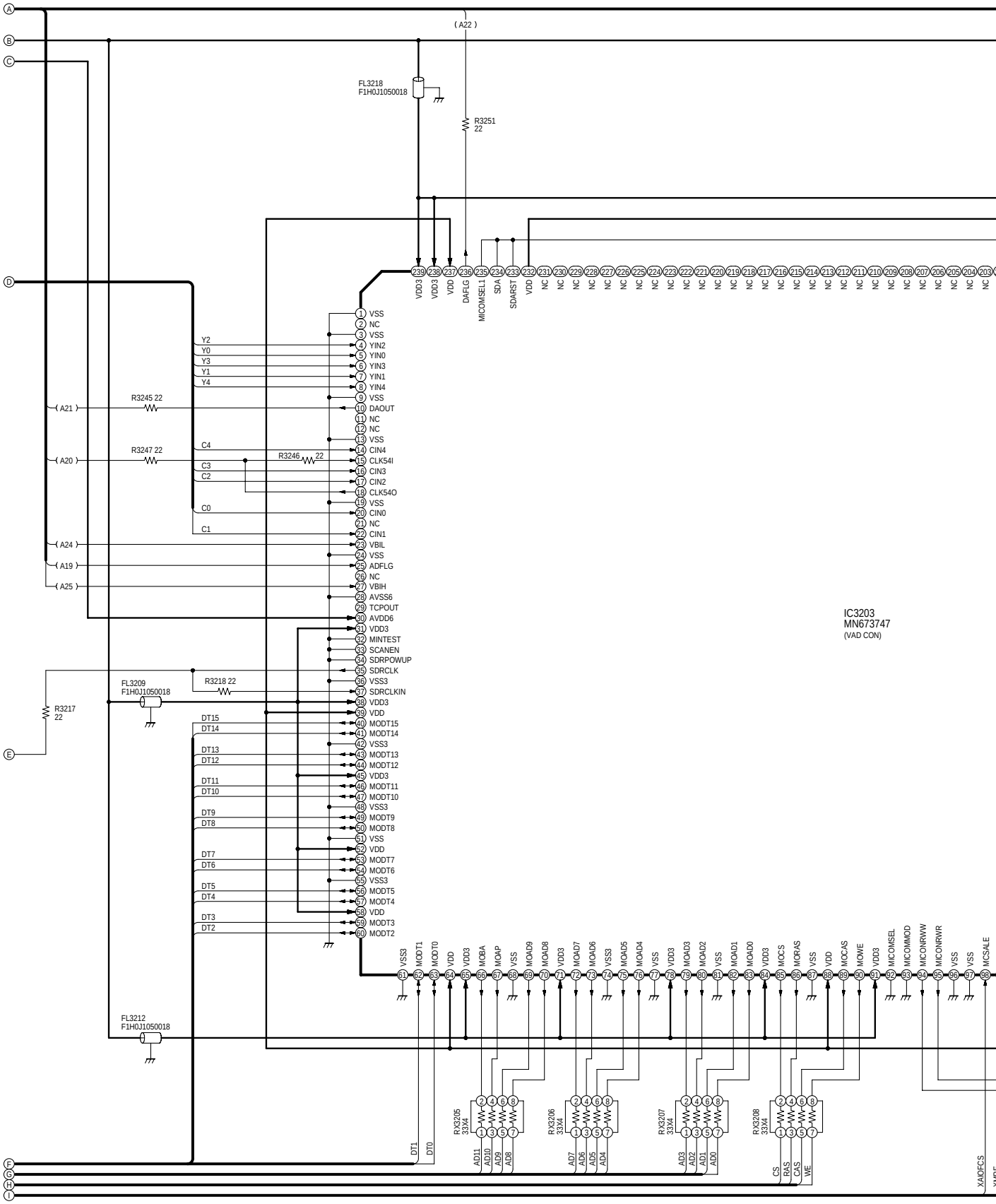
14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/6)



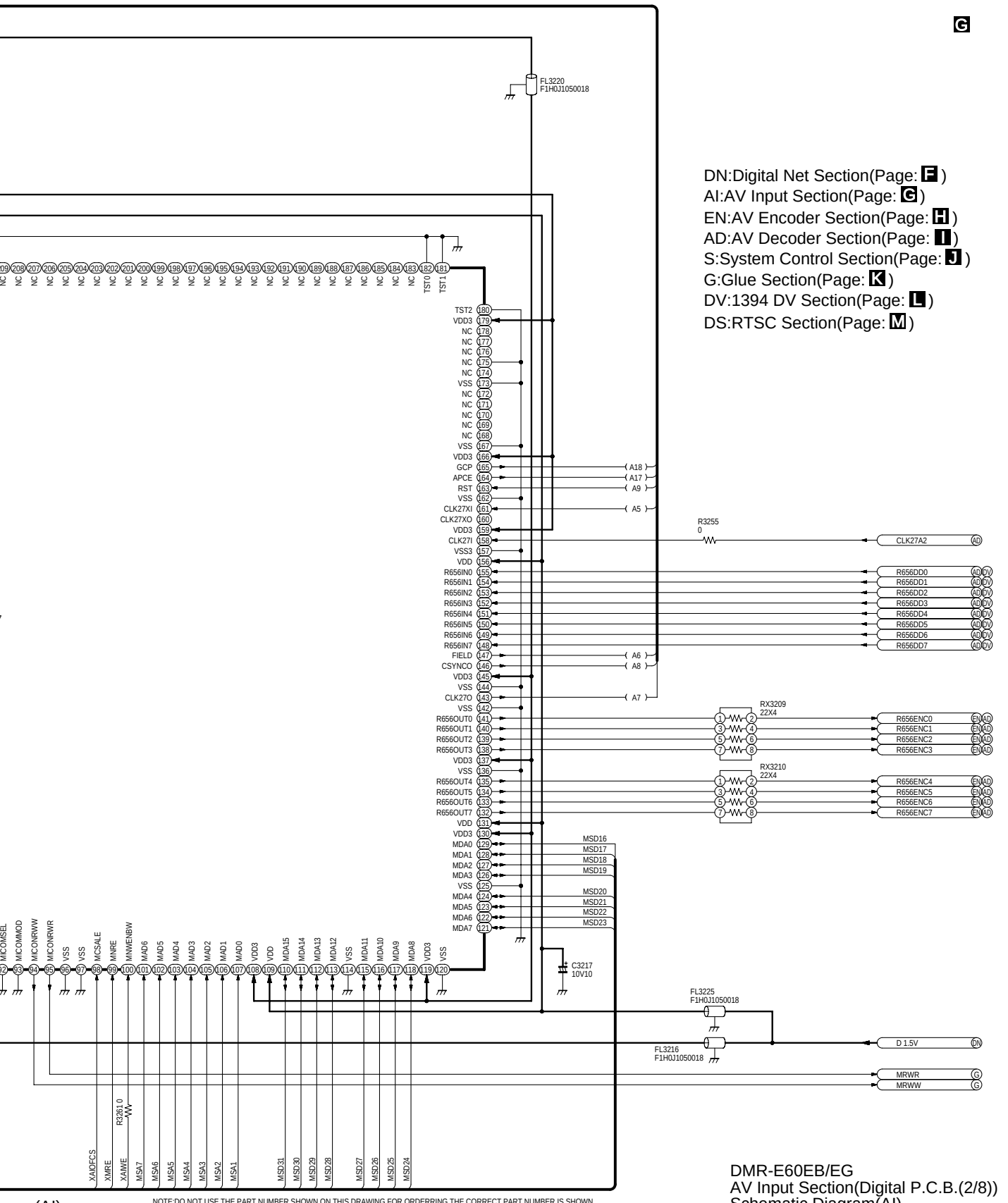


DMR-E60EB/EG AV Input Section(Digital P.C.B.(2/8)) Schematic Diagram(AI)

6 | 7 | 8 | 9 | 10 | 11



DMR-E60EB/EG AV Input Section(Digital P.C.B.(2/8)) Schematic Diagram(AI)



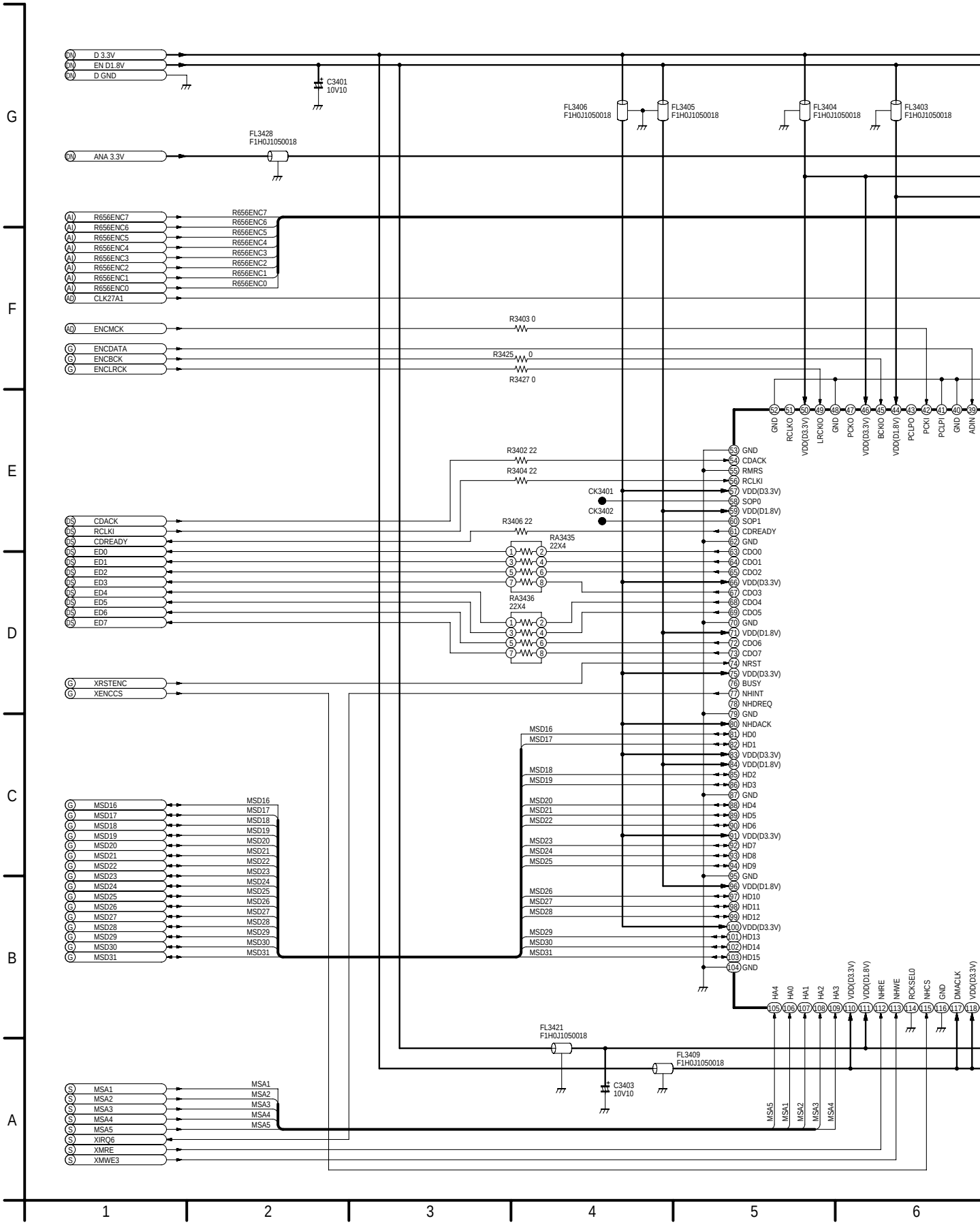
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

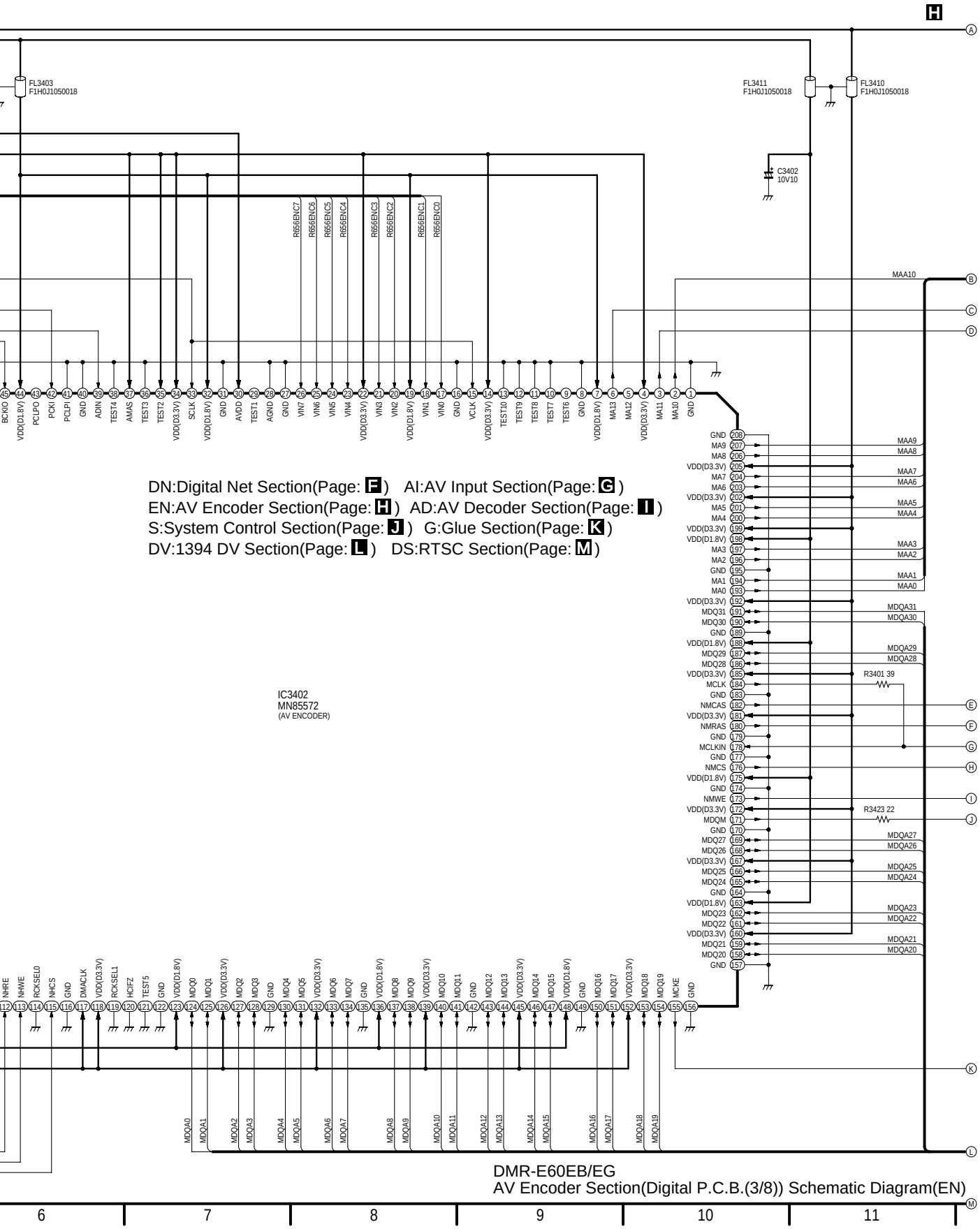
DMR-E60EB/EG
AV Input Section(Digital P.C.B.(2/8))
Schematic Diagram(AI)

gram(AI)

17 | 18 | 19 | 20 | 21 | 22

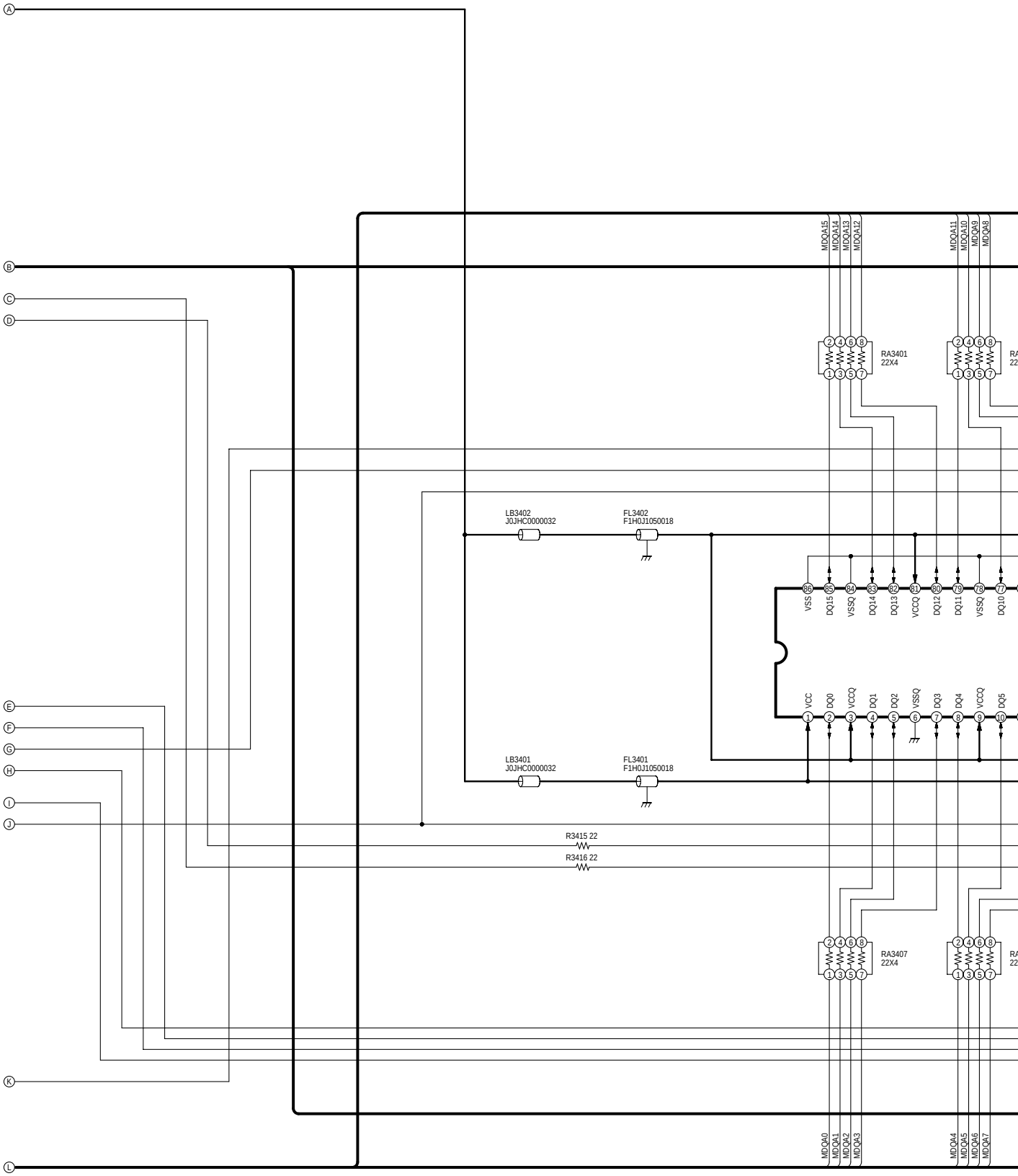
14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/6)





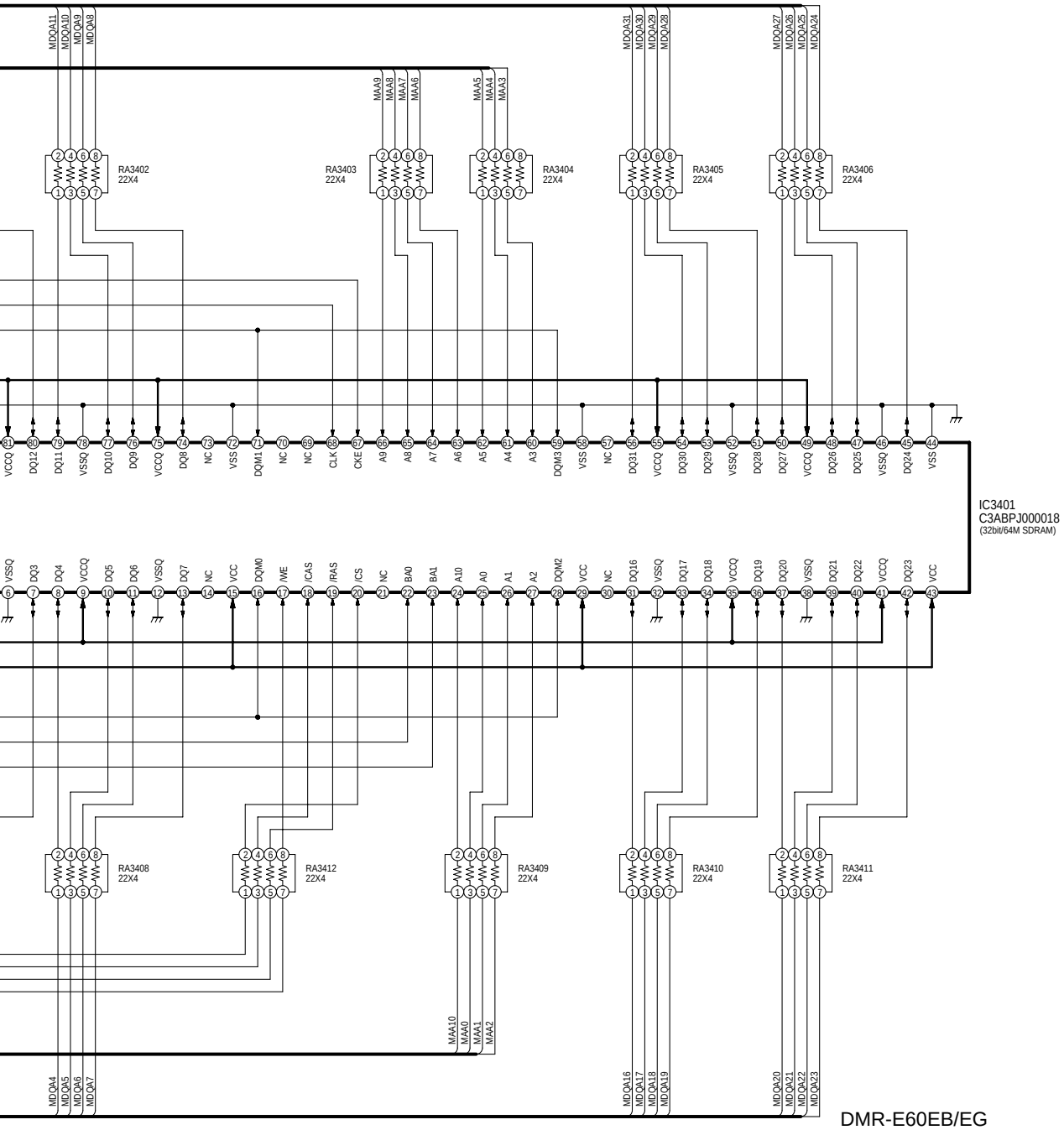
DN:Digital Net Section(Page: F) AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H) AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J) G:Glue Section(Page: K)
DV:1394 DV Section(Page: L) DS:RTSC Section(Page: M)

DMR-E60EB/EG
AV Encoder Section(Digital P.C.B.(3/8)) Schematic Diagram(EN)



DMR-E60EB/EG
AV Encoder Section(Digital P.C.B.(3/8)) Schematic Diagram(EN)

DN:Digital Net Section(Page: F) AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H) AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J) G:Glue Section(Page: K)
DV:1394 DV Section(Page: L) DS:RTSC Section(Page: M)



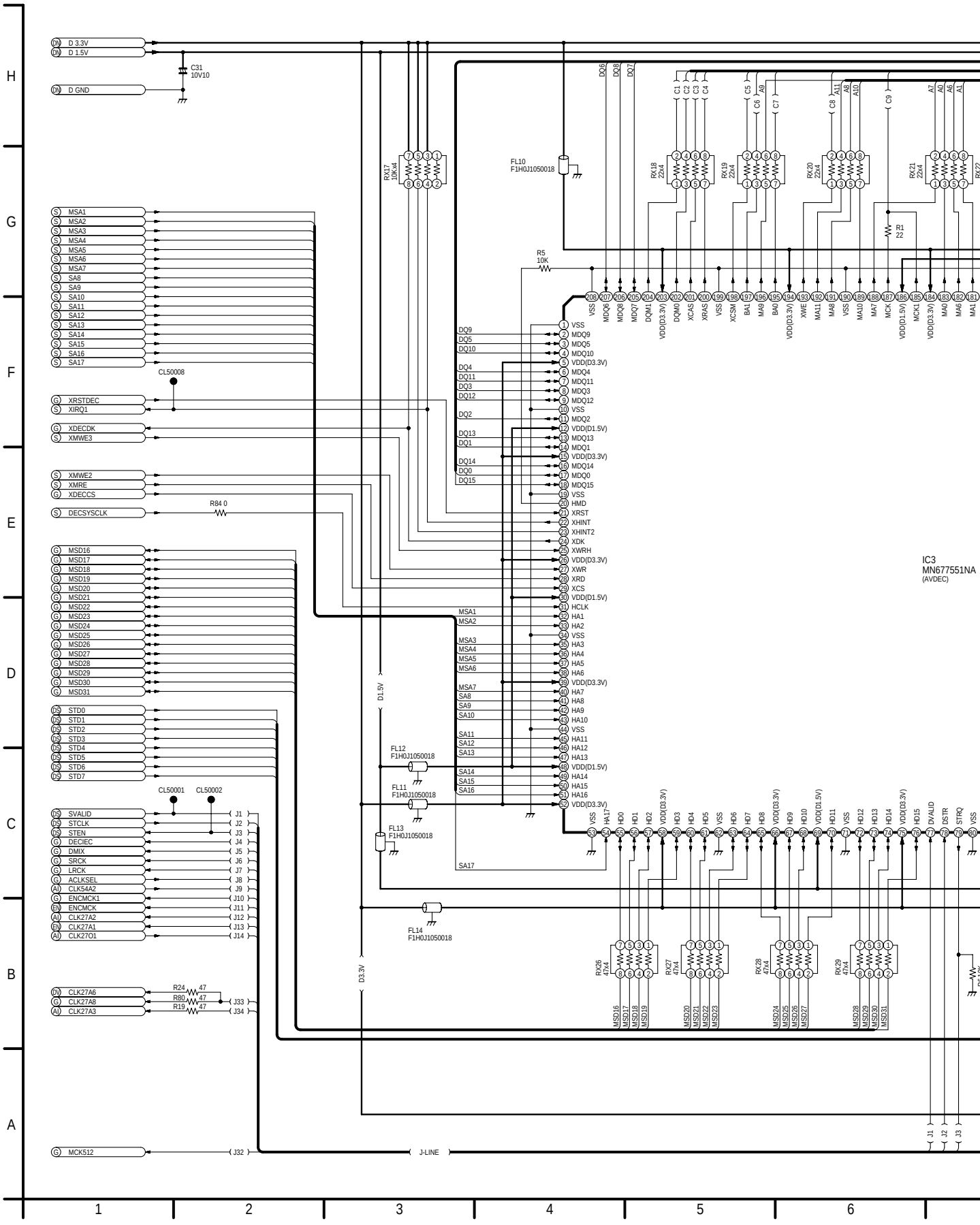
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PART'S LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

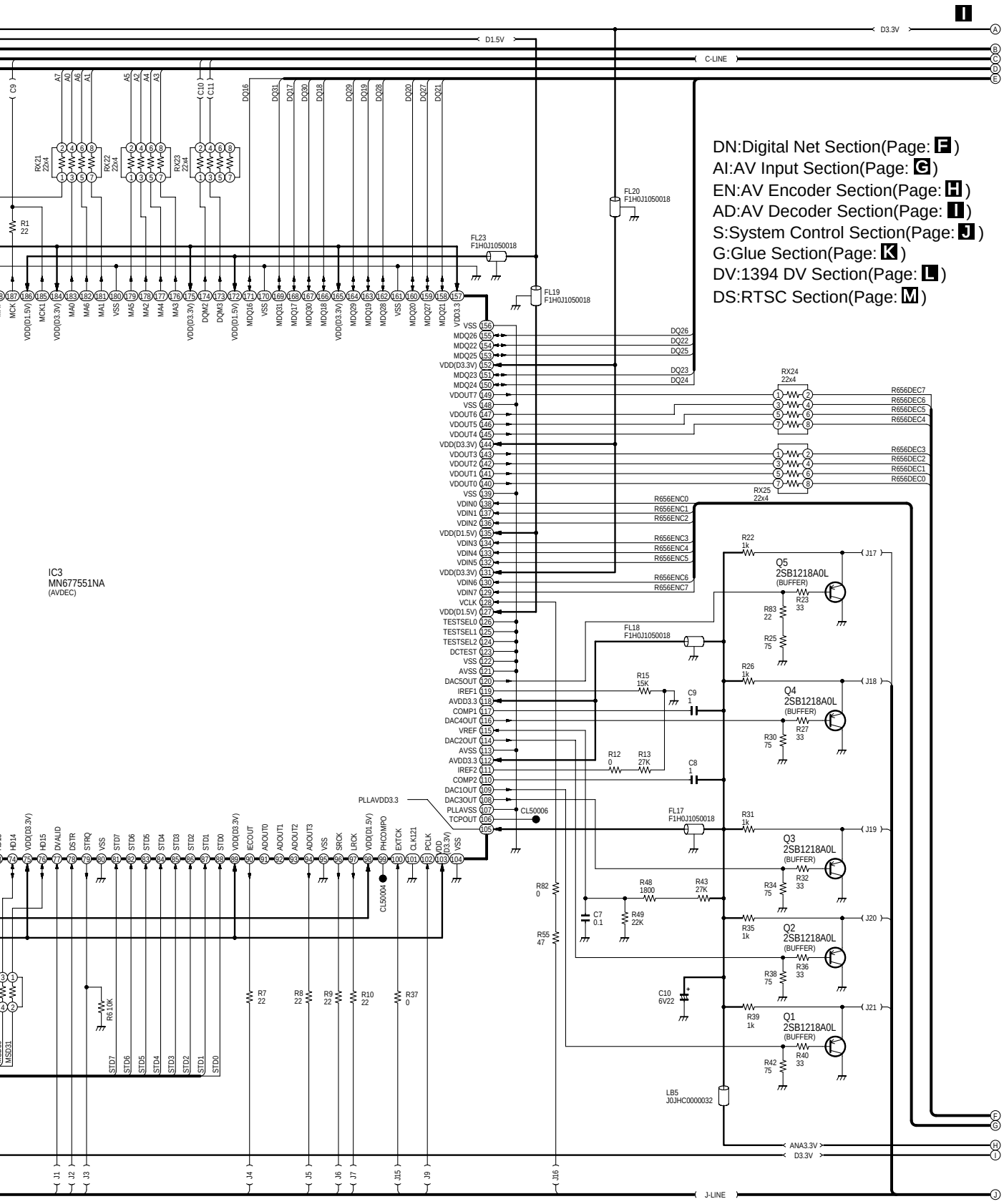
DMR-E60EB/EG
AV Encoder Section(Digital P.C.B.(3/8))
Schematic Diagram(EN)

N)

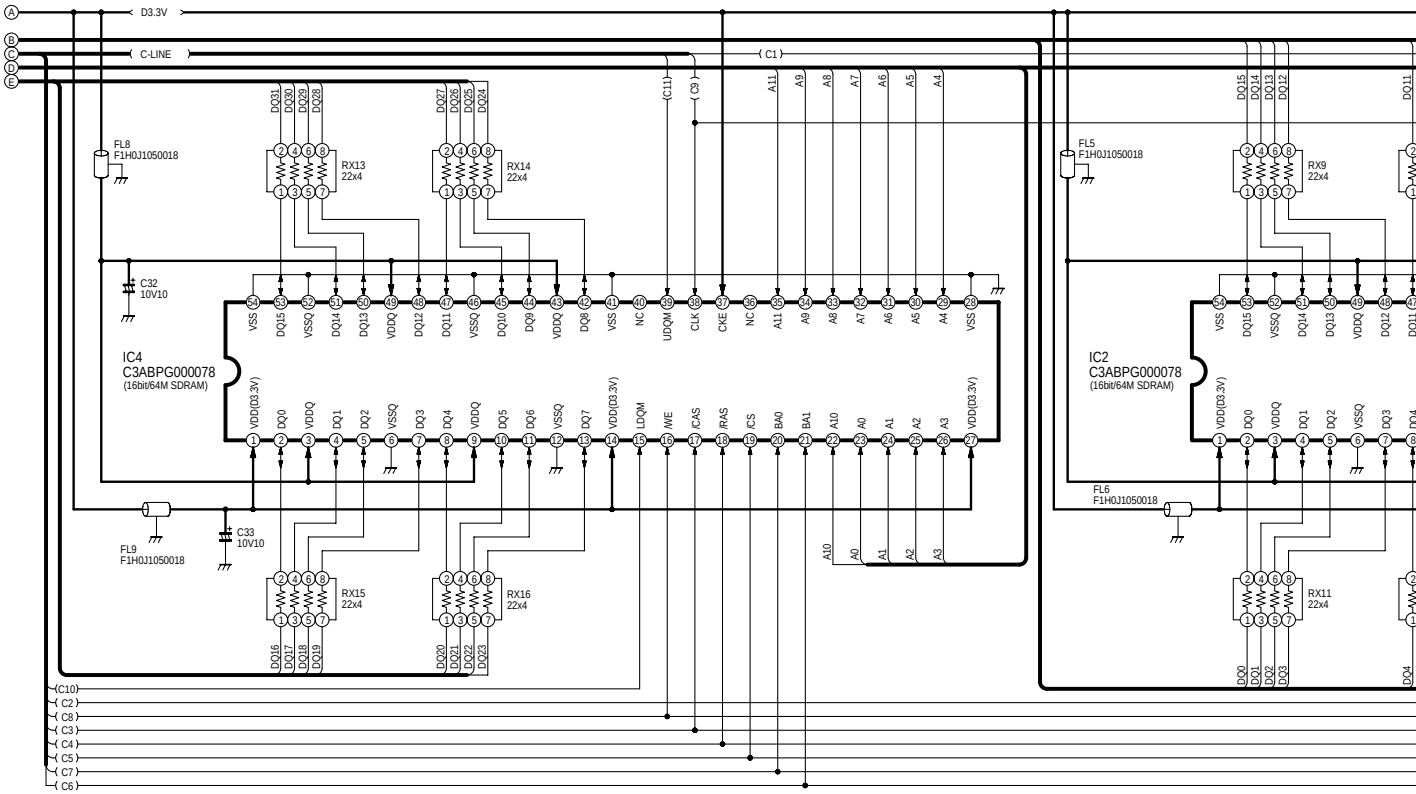
17 | 18 | 19 | 20 | 21 | 22

14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/6)

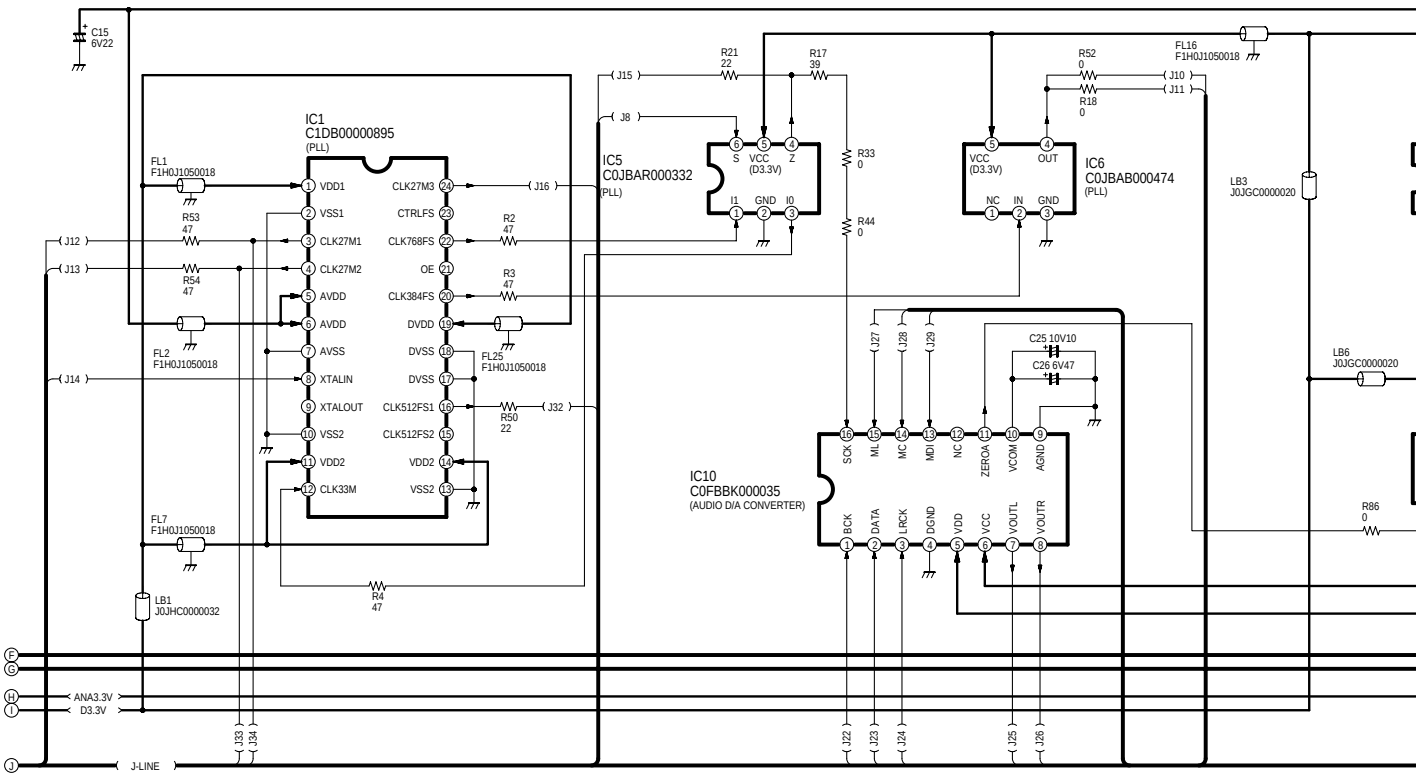




DMR-E60EB/EG
AV Decoder Section(Digital P.C.B.(4/8)) Schematic Diagram(AD)



DN:Digital Net Section(Page: F) AI:AV Input Section(Page: G) EN:AV Encoder Section(Page: H) AD:AV Decoder Section(P
S:System Control Section(Page: J) G:Glue Section(Page: K) DV:1394 DV Section(Page: L) DS:RTSC Section(Page: M)



DMR-E60EB/EG
AV Decoder Section(Digital P.C.B.(4/8)) Schematic Diagram(AD)

NOTE:DO NOT US
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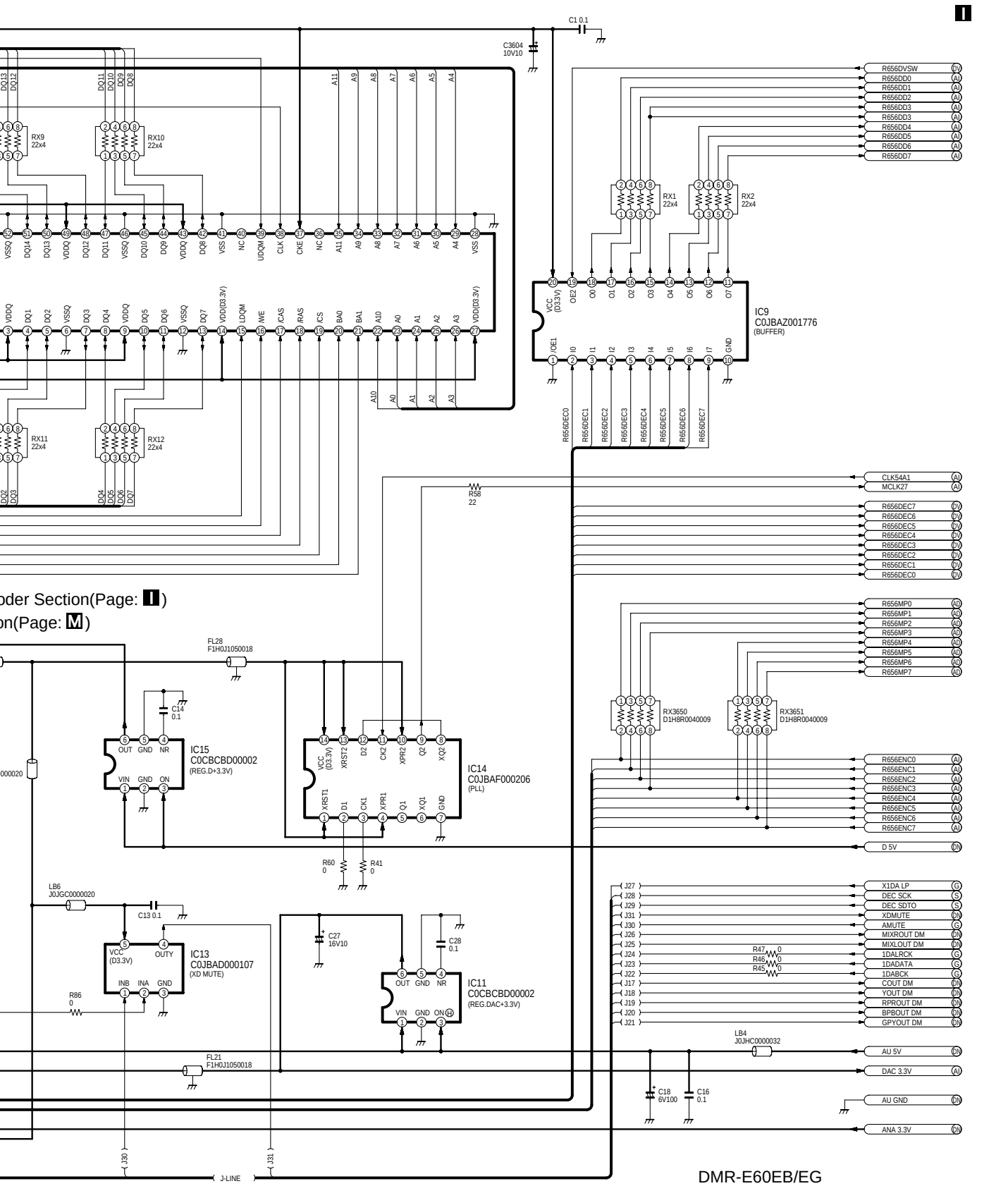


oder Section(Page: I)
on(Page: M)

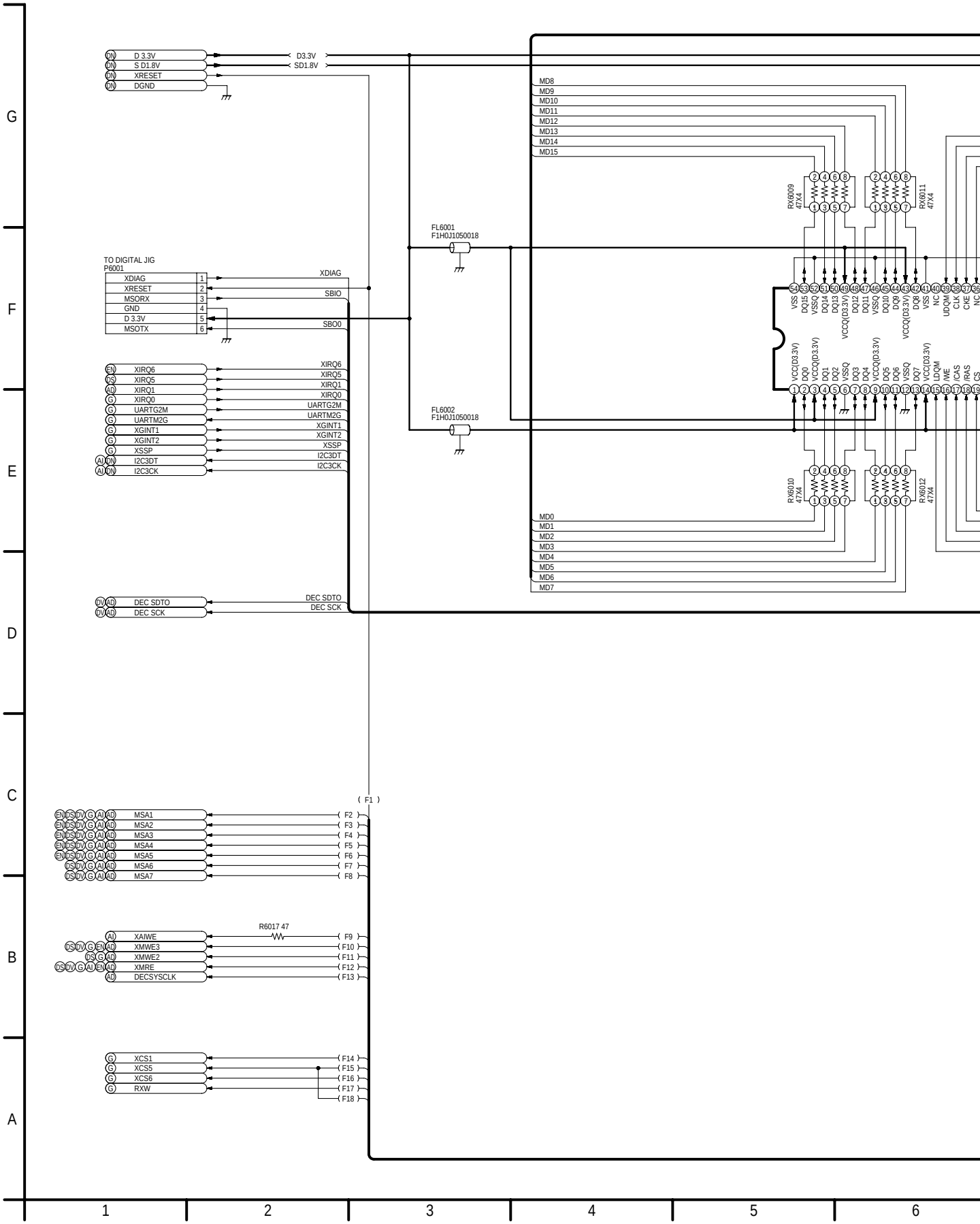
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

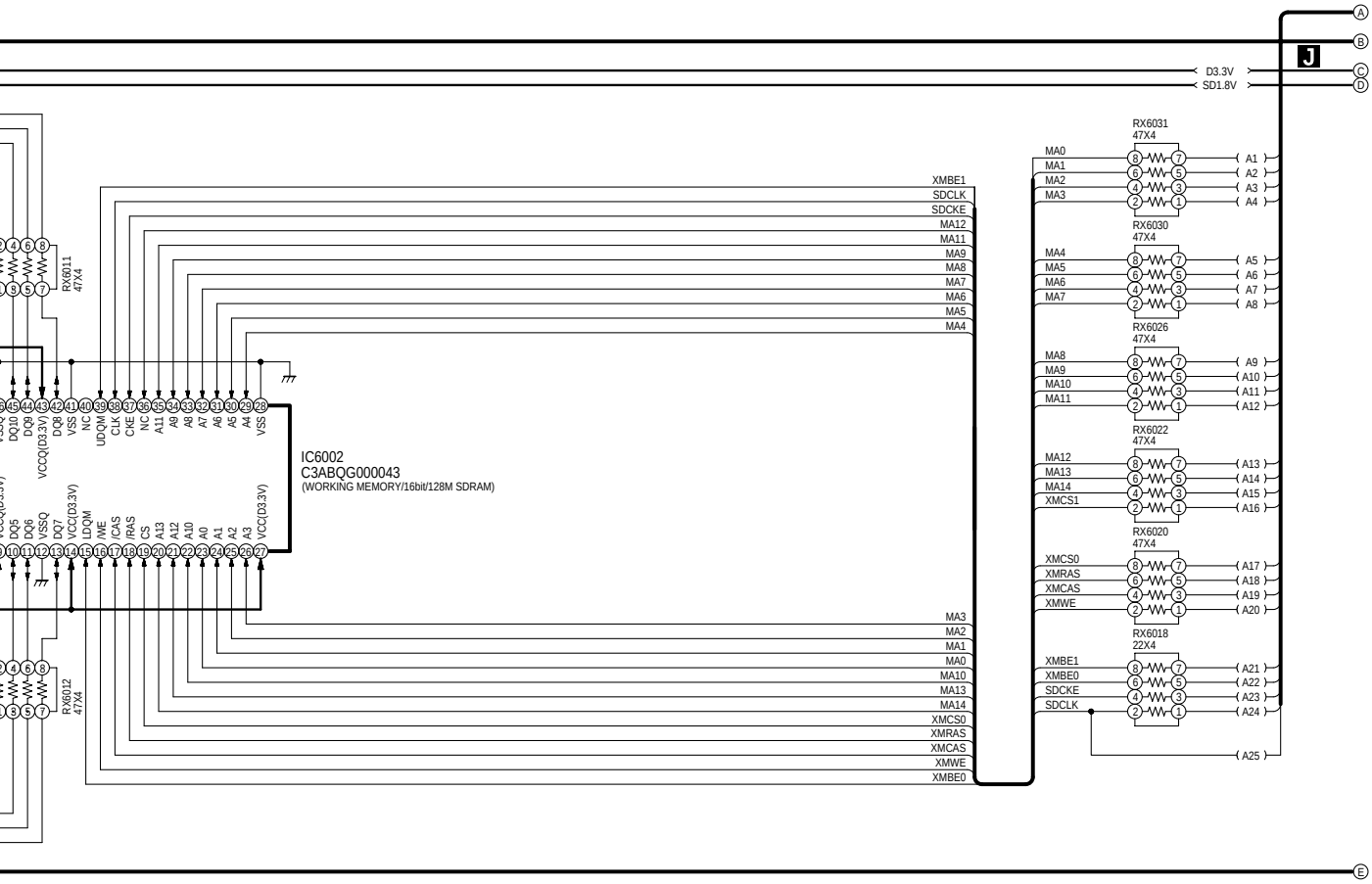
REF.NO.50000 SERIES

DMR-E60EB/EG
AV Decoder Section(Digital P.C.B.(4/8))
Schematic Diagram(AD)

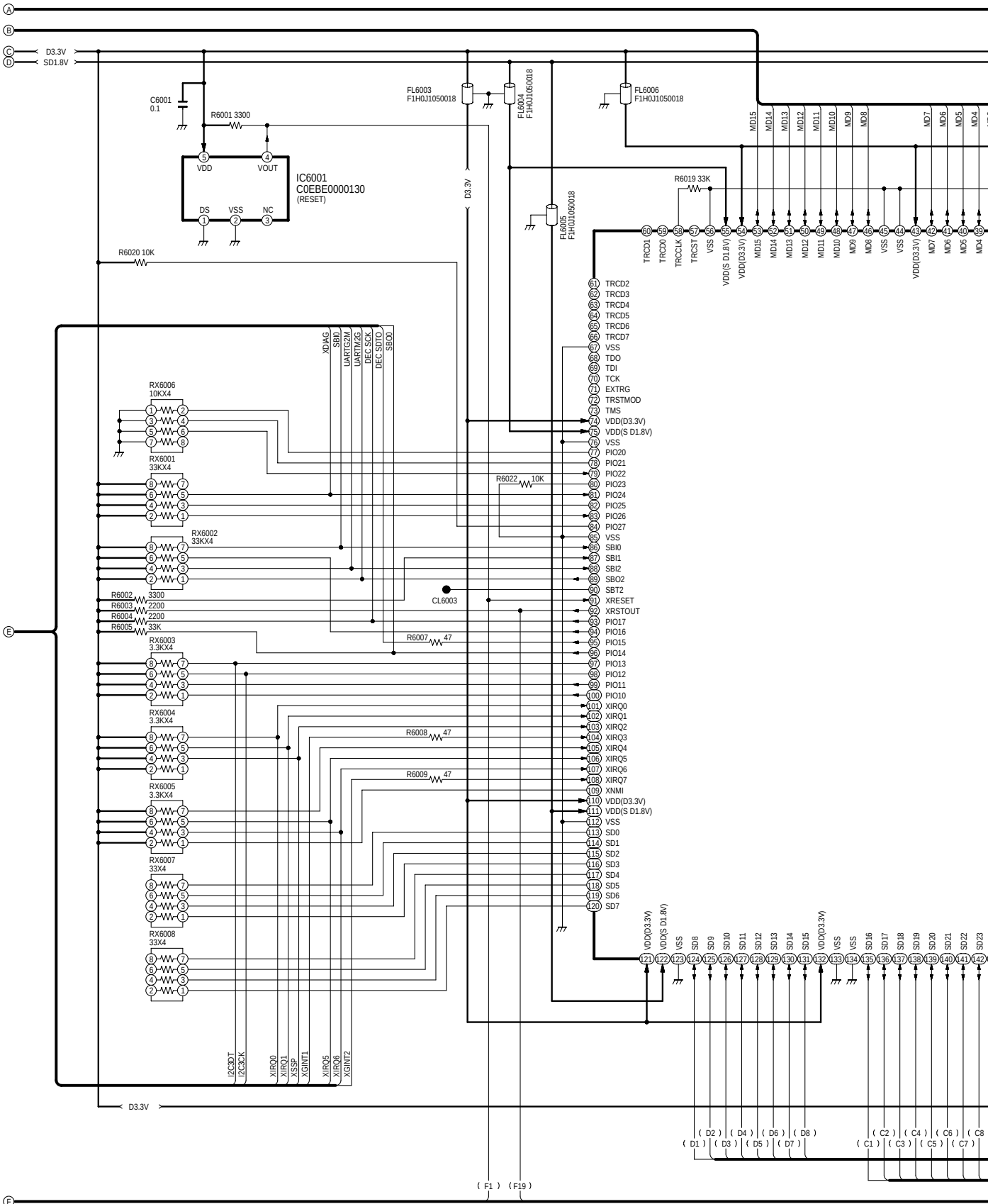
19 | 20 | 21 | 22 | 23 | 24

14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/6)

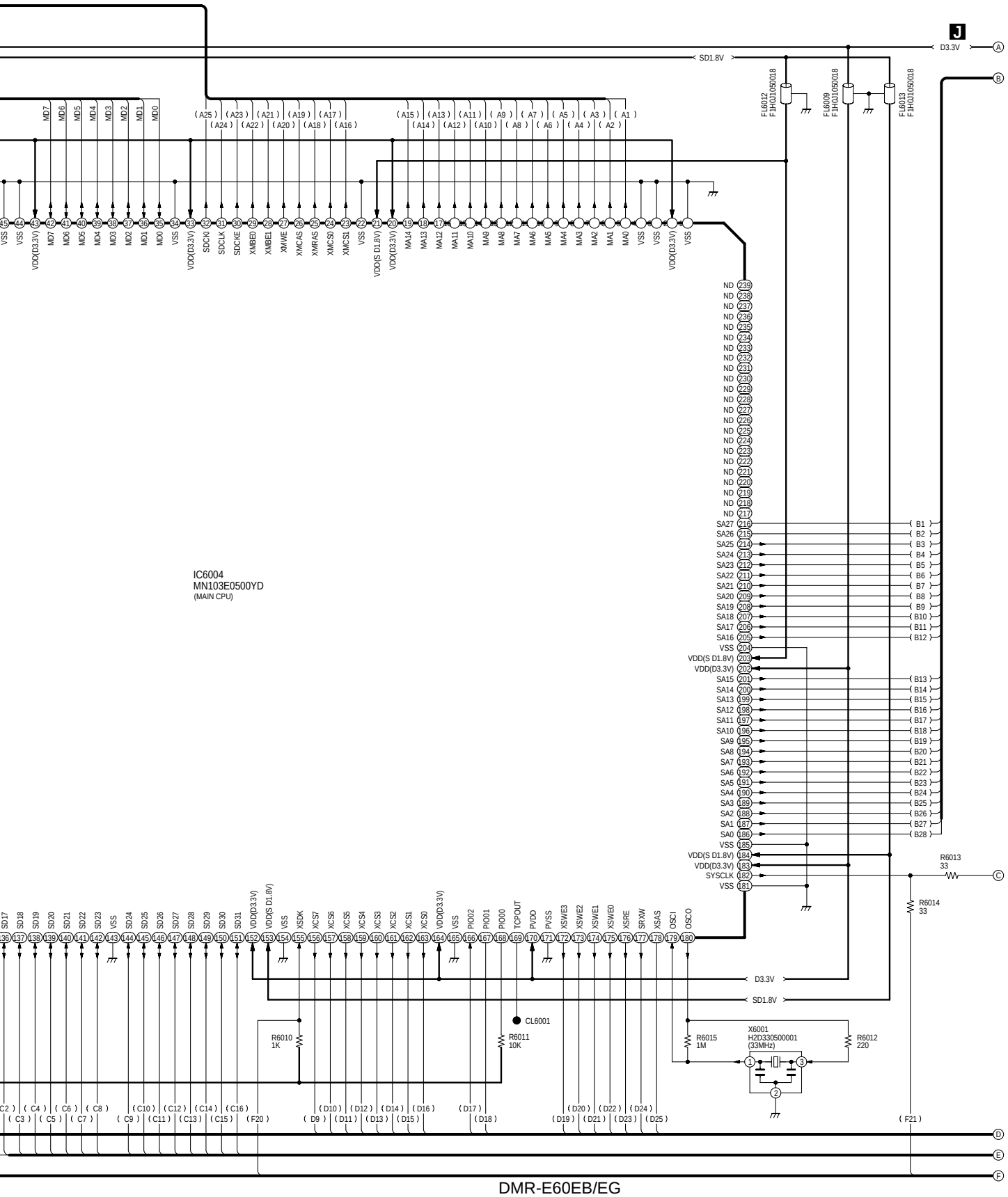




DN:Digital Net Section(Page: F) AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H) AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J) G:Glue Section(Page: K)
DV:1394 DV Section(Page: L) DS:RTSC Section(Page: M)



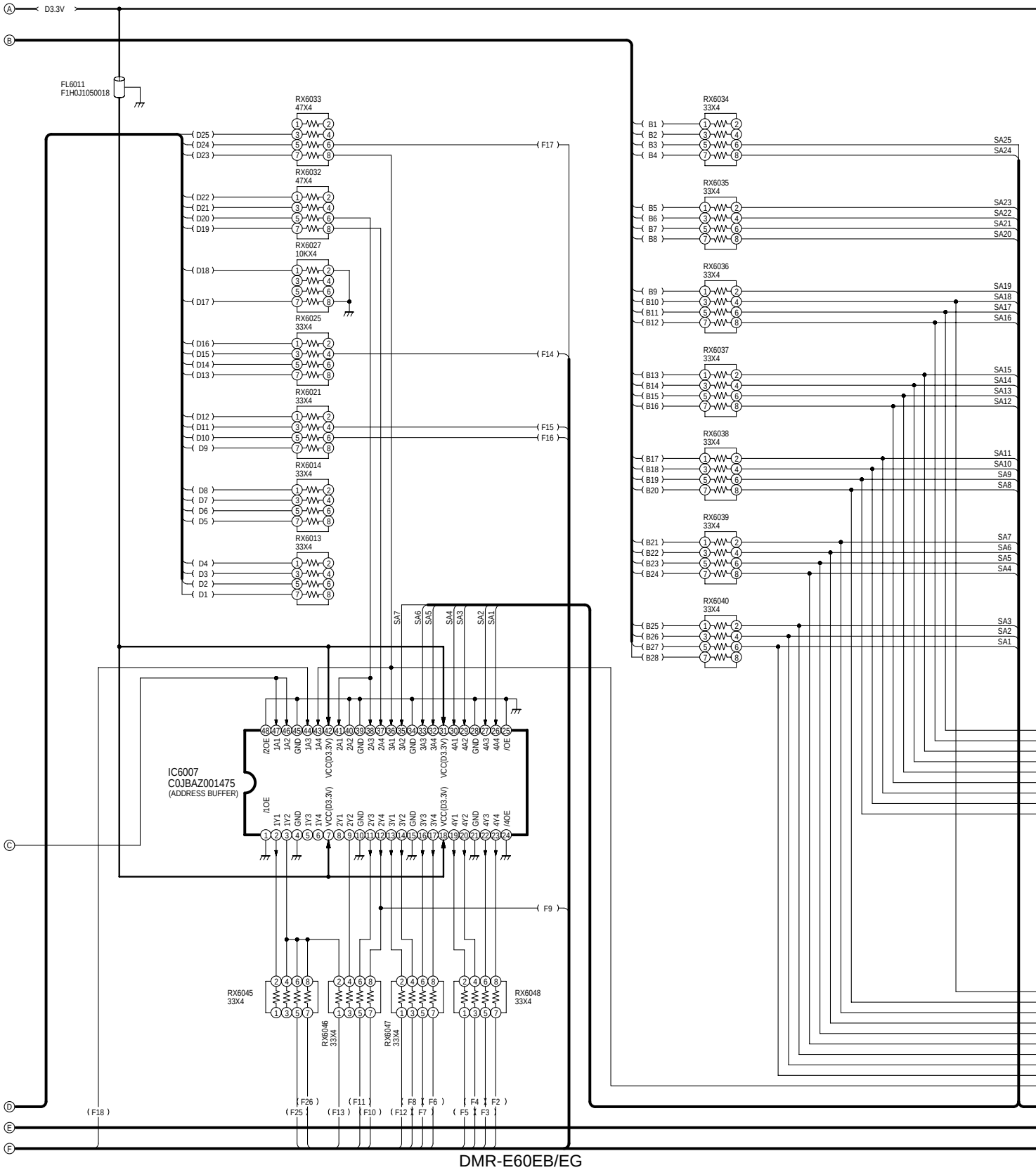
DMR-E60EB/EG
System Control Section(Digital P.C.B.(5/8)) Schematic Diagram(S)



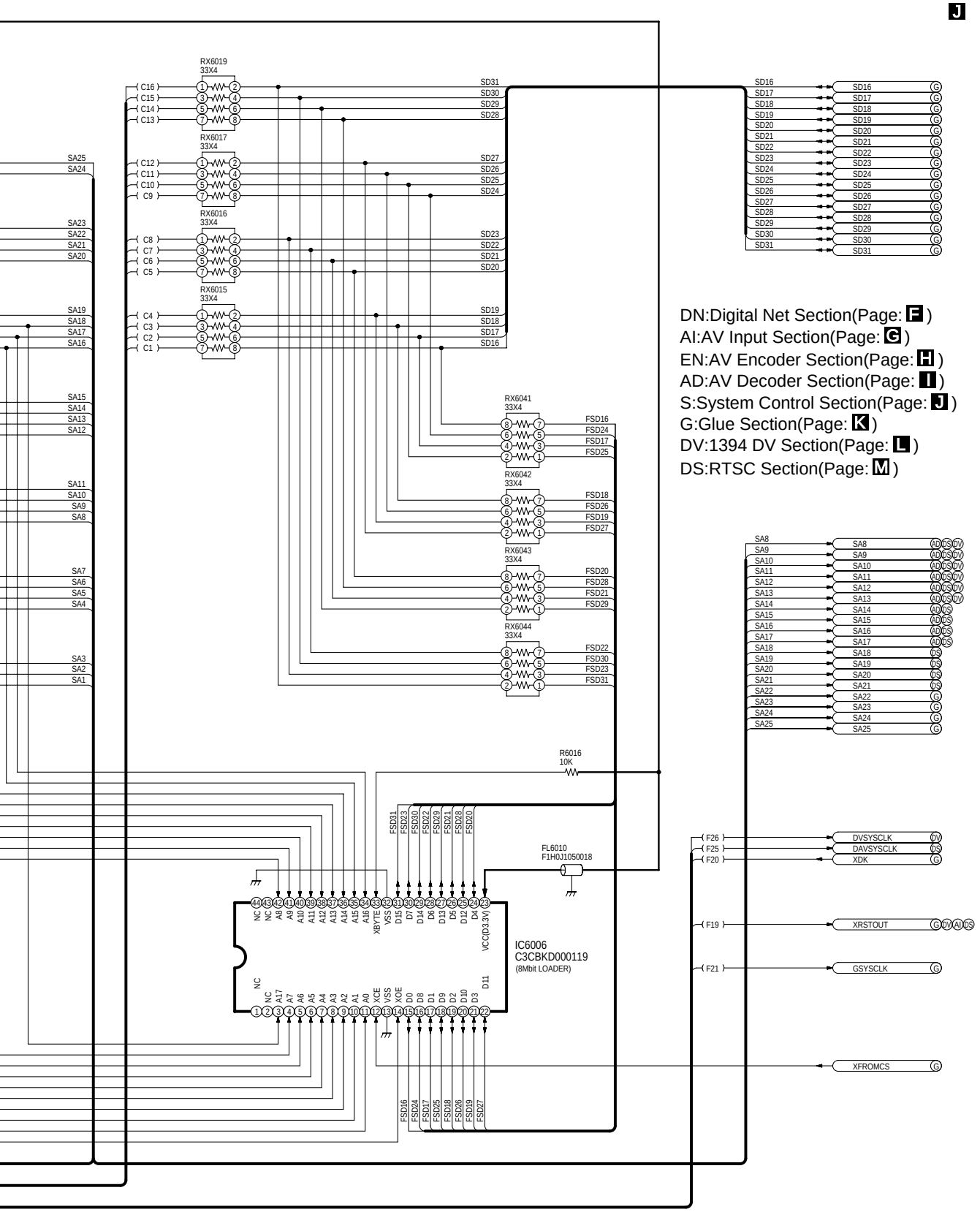
DMR-E60EB/EG

Diagram(S) System Control Section(Digital P.C.B.(5/8)) Schematic Diagram(S)

17 18 19 20 21 22



DMR-E60EB/EG
System Control Section(Digital P.C.B.(5/8)) Schematic Diagram(S)

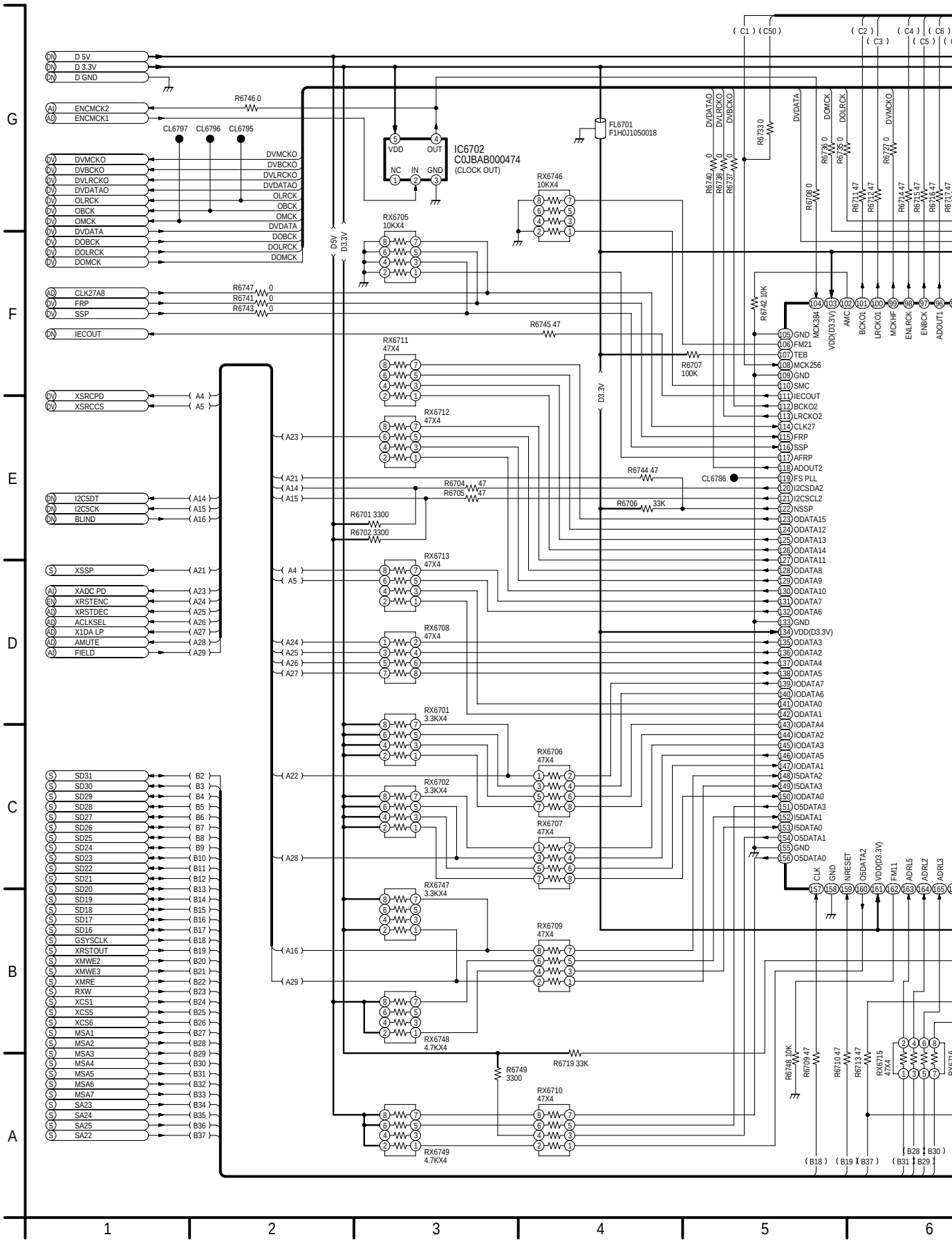


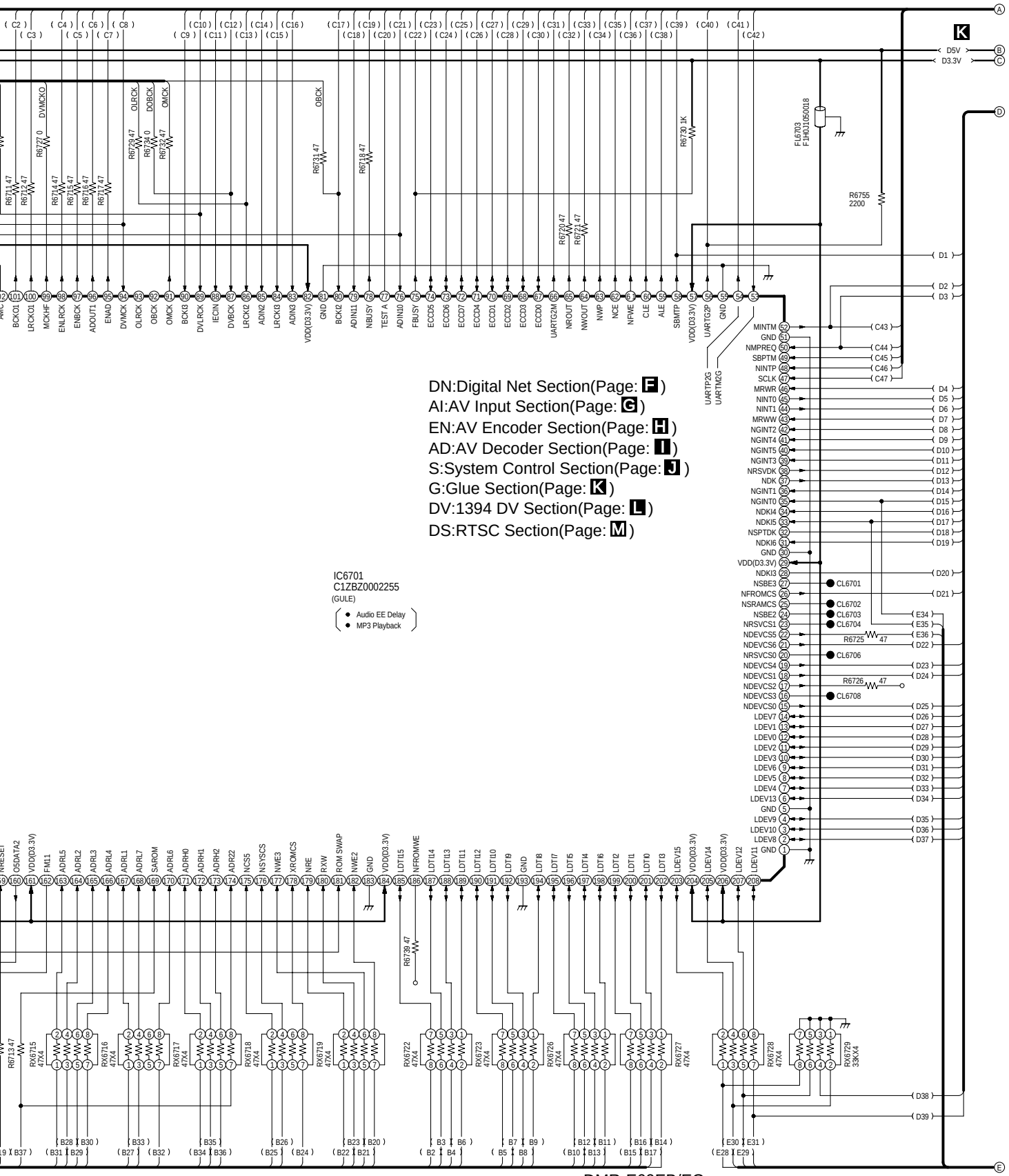
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E60EB/EG
System Control Section(Digital P.C.B.(5/8)) Schematic Diagram(S)

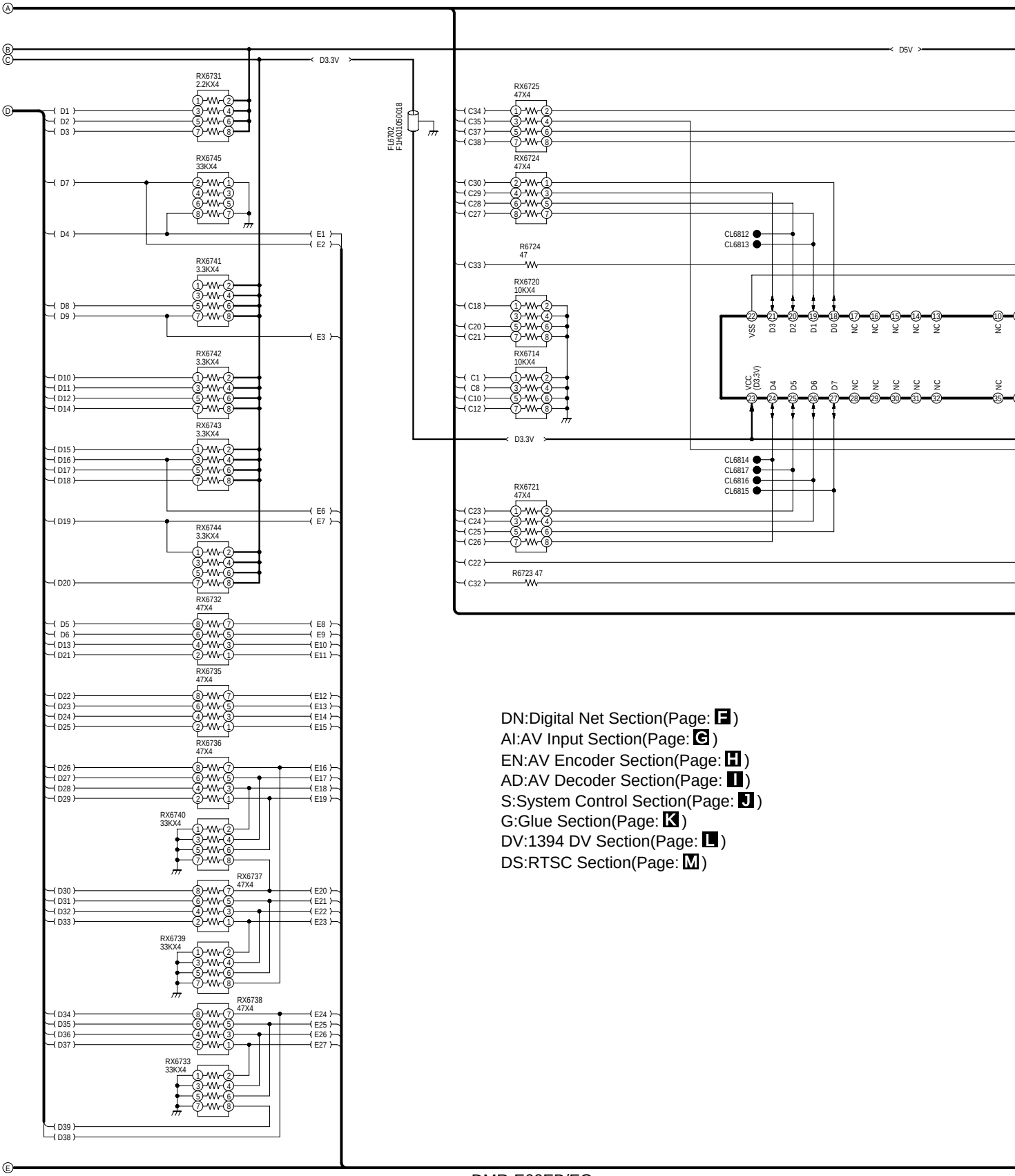
28 | 29 | 30 | 31 | 32 | 33

14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/6)





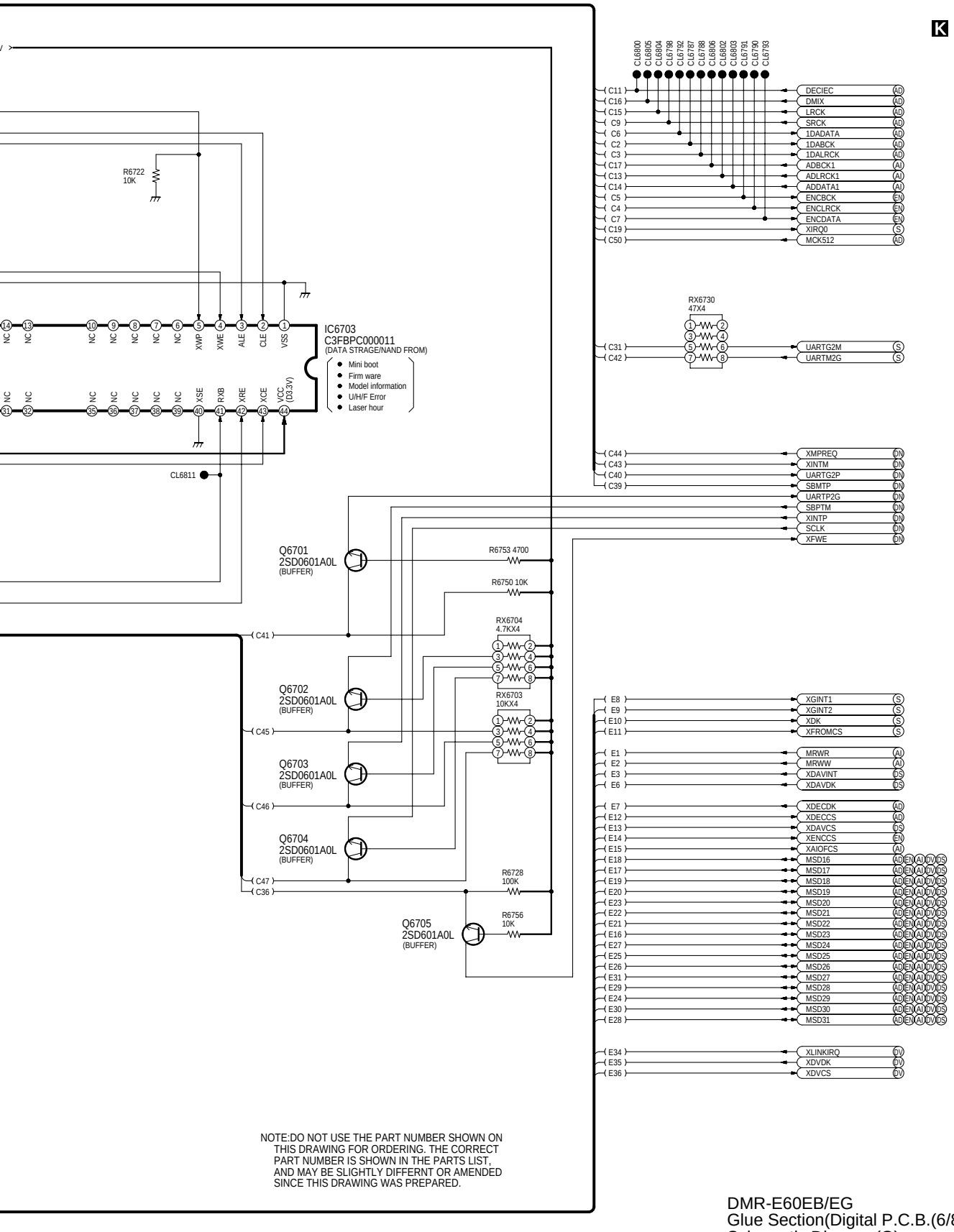
DMR-E60EB/EG
Glue Section(Digital P.C.B.(6/8)) Schematic Diagram(G)



DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)

DMR-E60EB/EG
Glue Section(Digital P.C.B.(6/8)) Schematic Diagram(G)

12 | 13 | 14 | 15 | 16 | 17

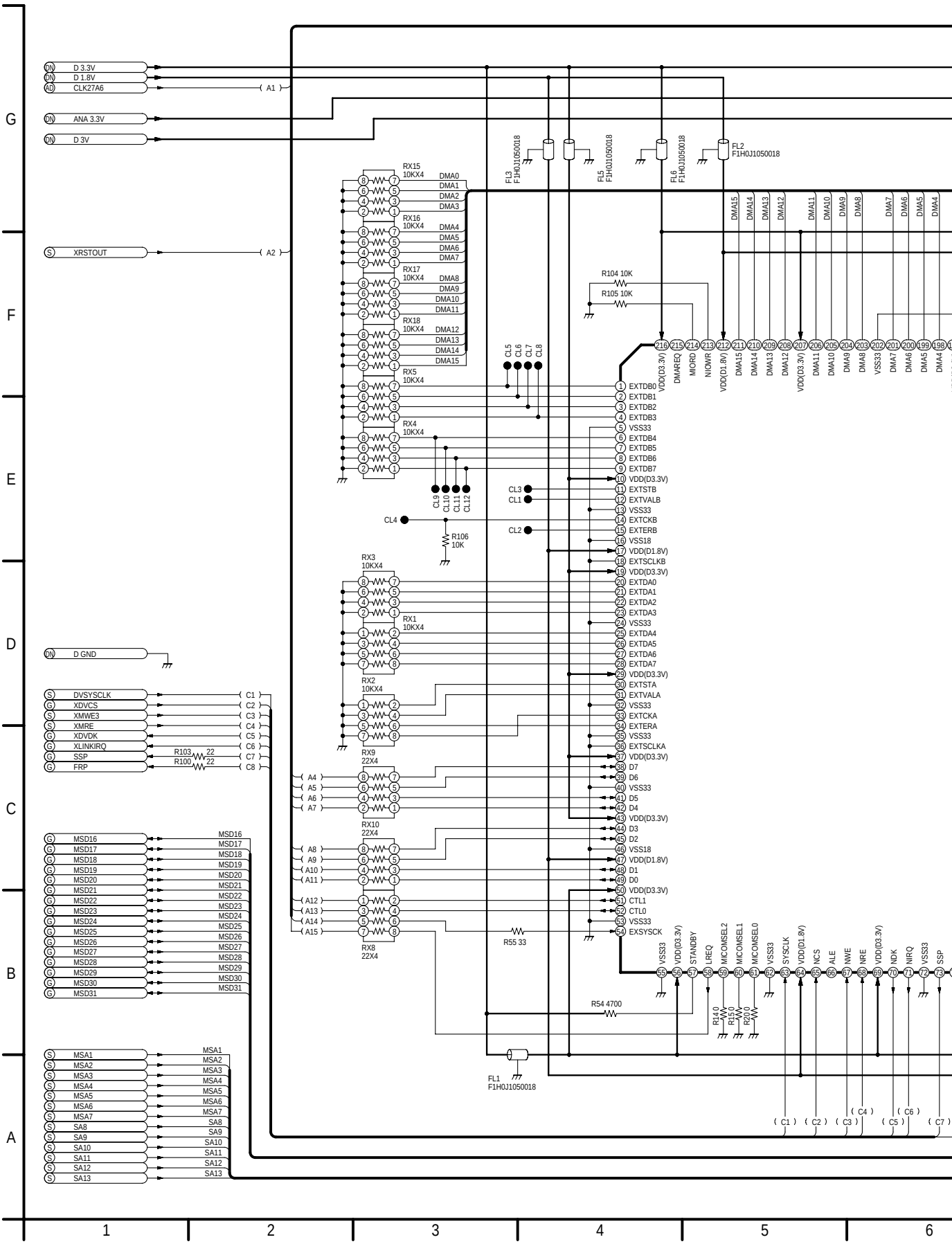


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

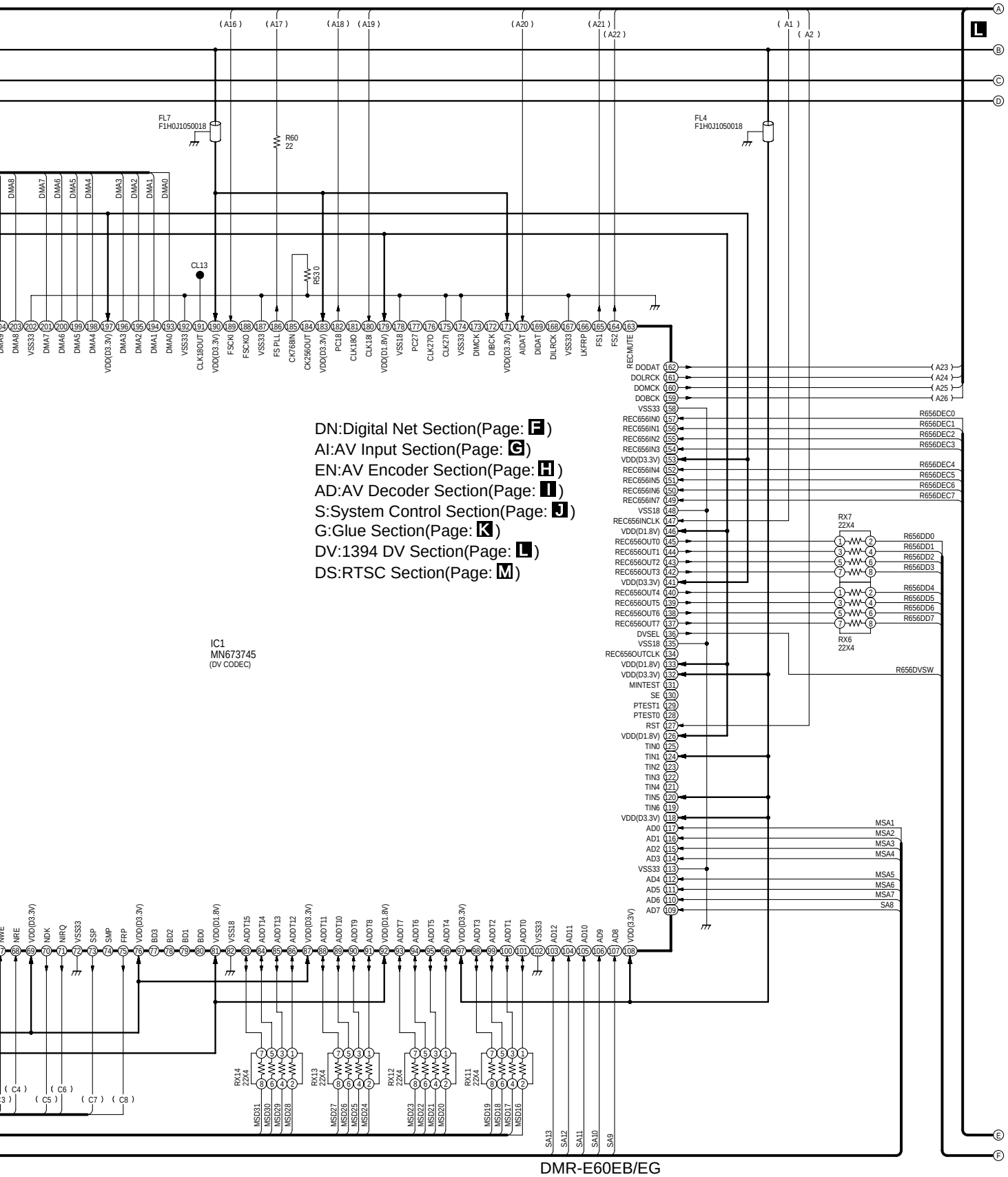
DMR-E60EB/EG
Glue Section(Digital P.C.B.(6/8))
Schematic Diagram(G)

18 19 20 21 22

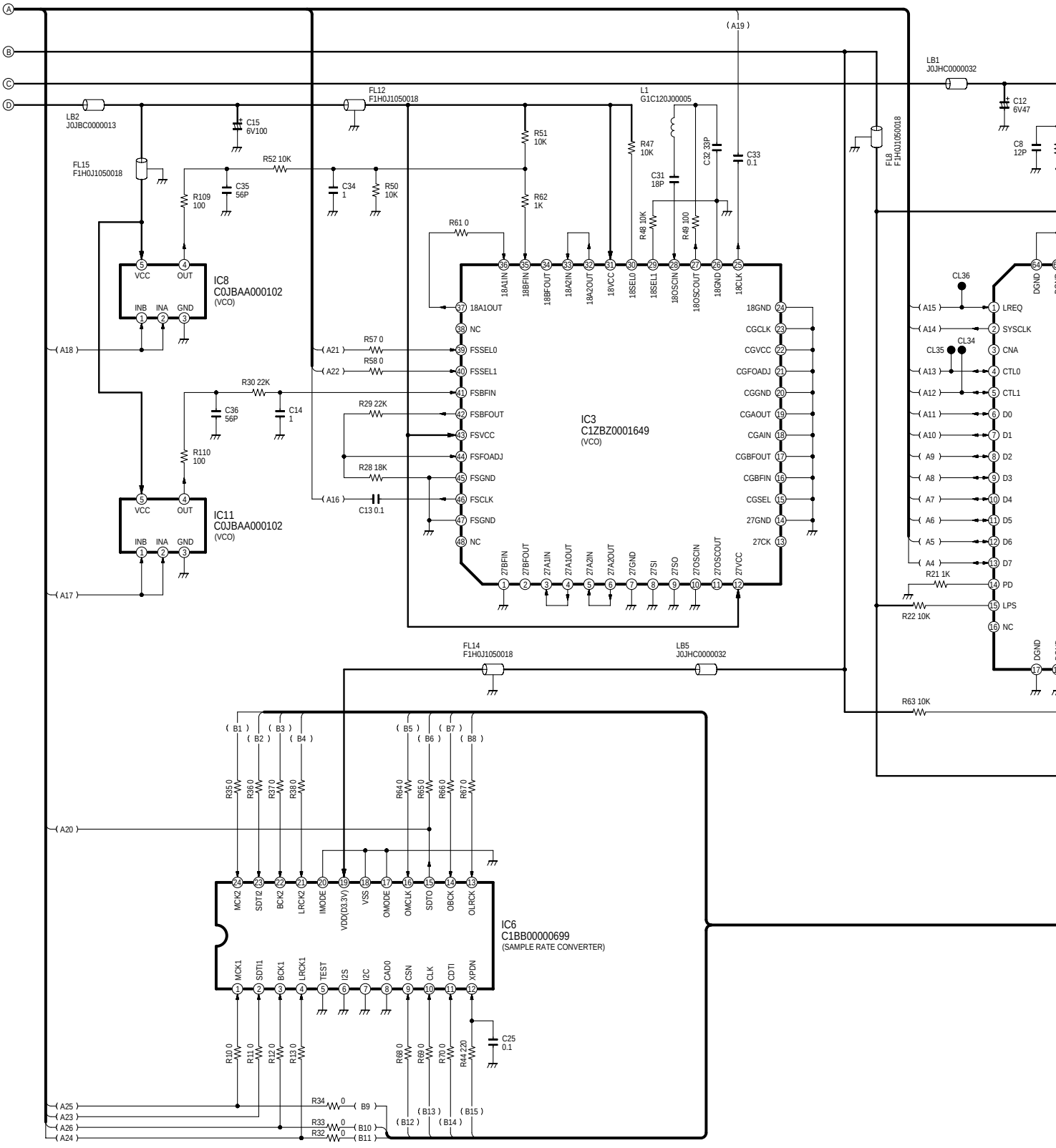
14.14. 1394 DV Schematic Diagram (DV) (Digital P.C.B.) & DV JACK Schematic Di



matic Diagram

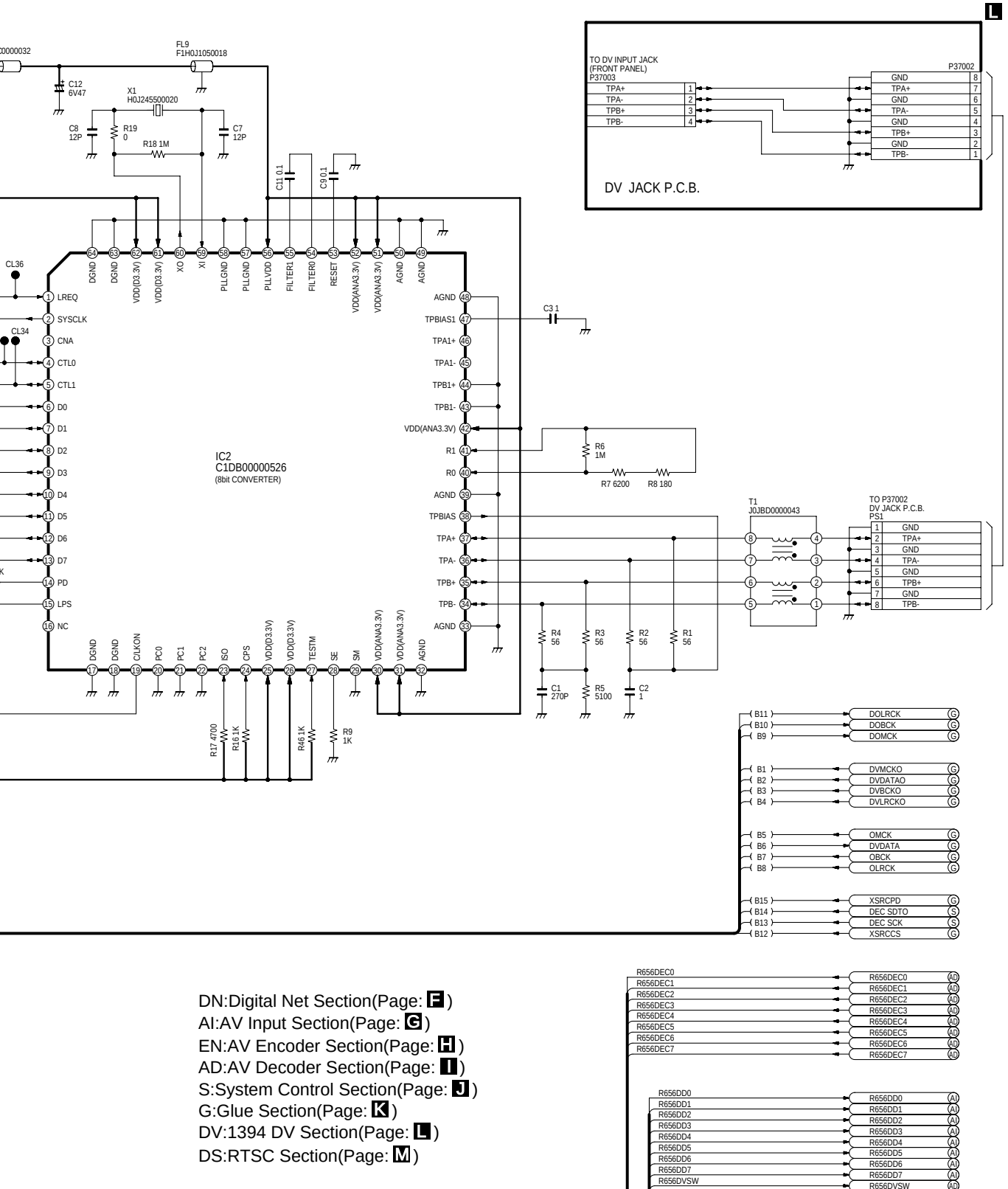


DMR-E60EB/EG
1394 DV Section(Digital P.C.B.(7/8)) Schematic Diagram(DV)



DMR-E60EB/EG
1394 DV Section(Digital P.C.B.(7/8)) Schematic Diagram(DV)

NOTE:DO N
IN THE



DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)

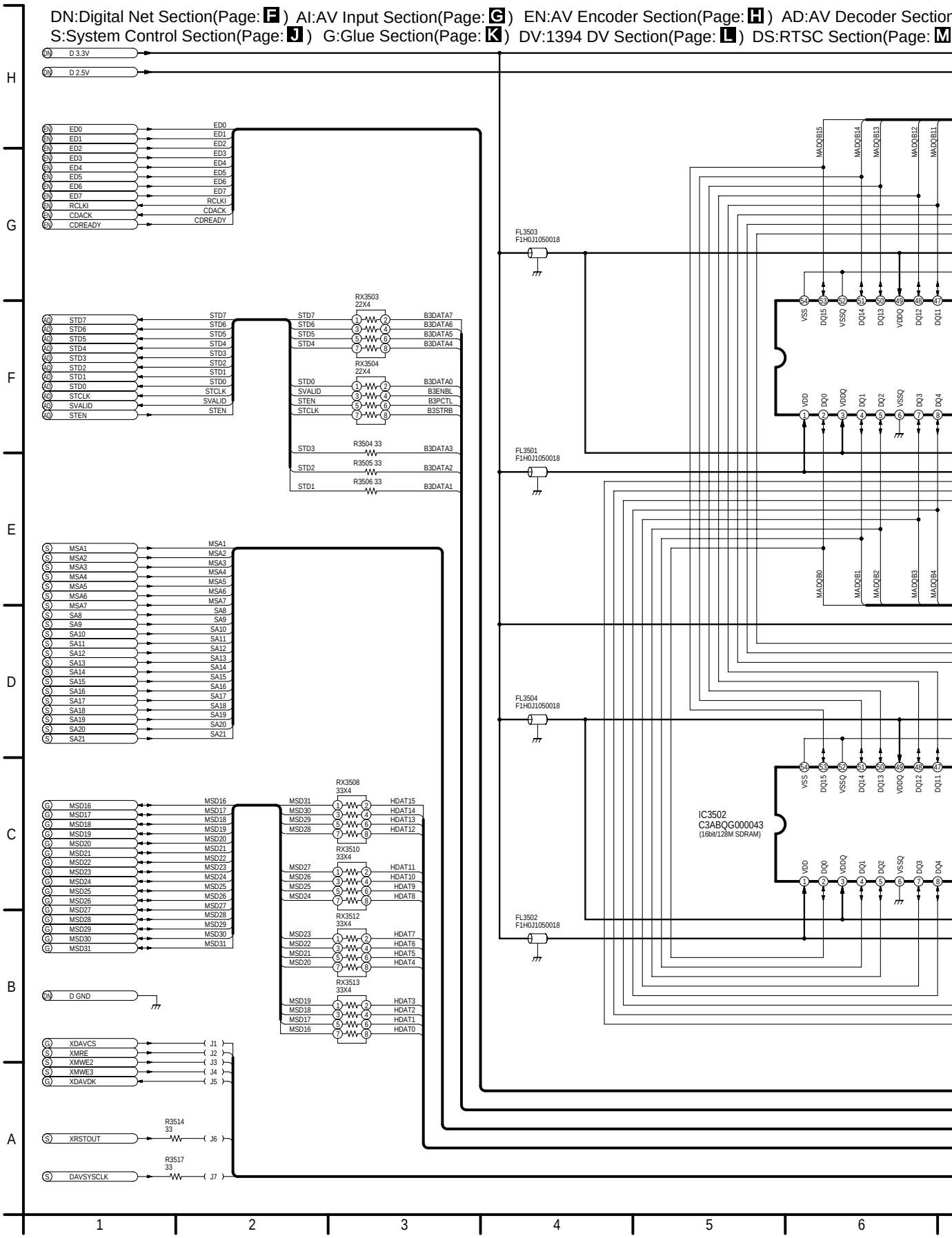
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

REF NO.37000 SERIES

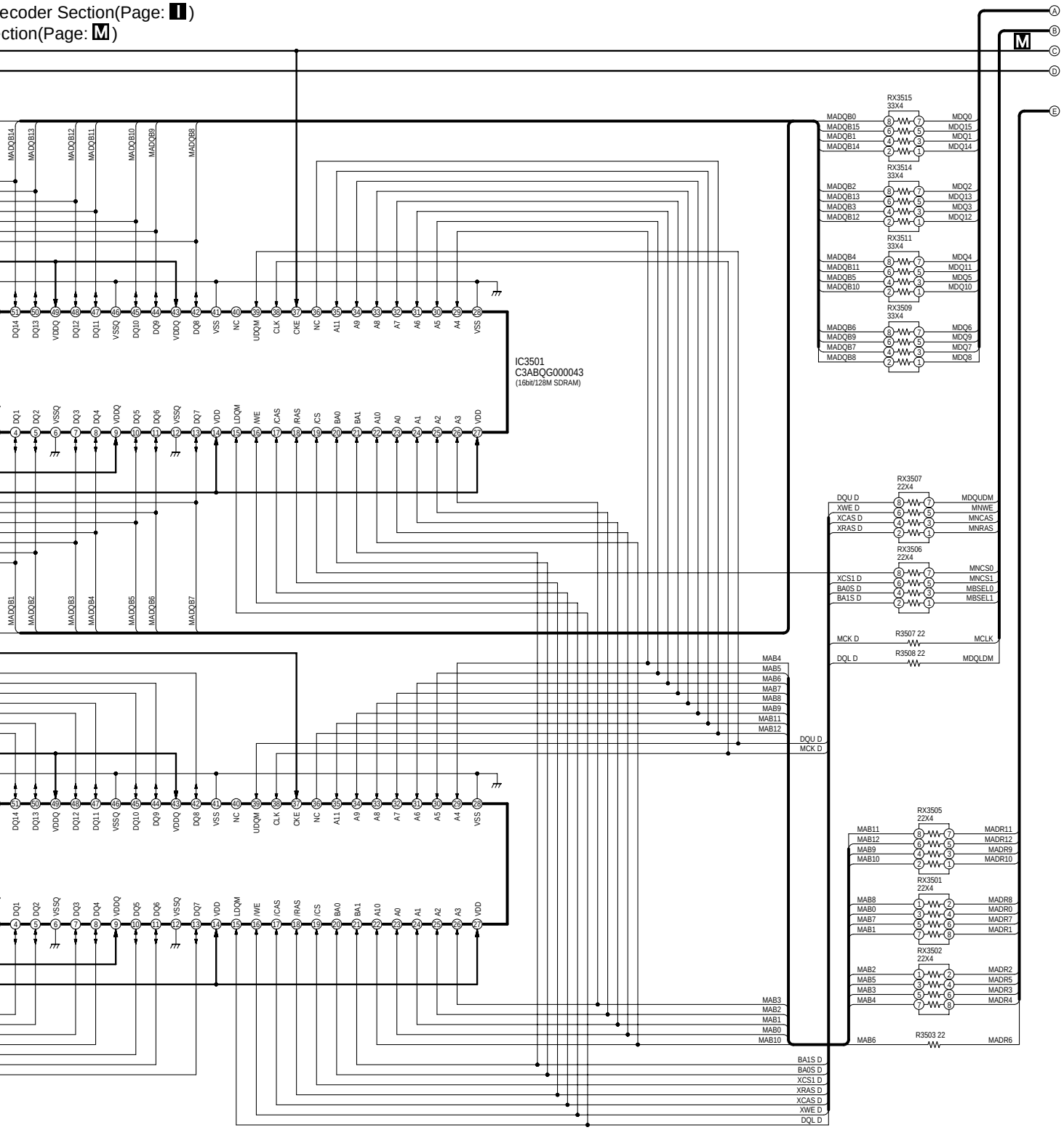
DMR-E60EB/EG
1394 DV Section(Digital P.C.B.(7/8))
Schematic Diagram(DV)

17 | 18 | 19 | 20 | 21 | 22

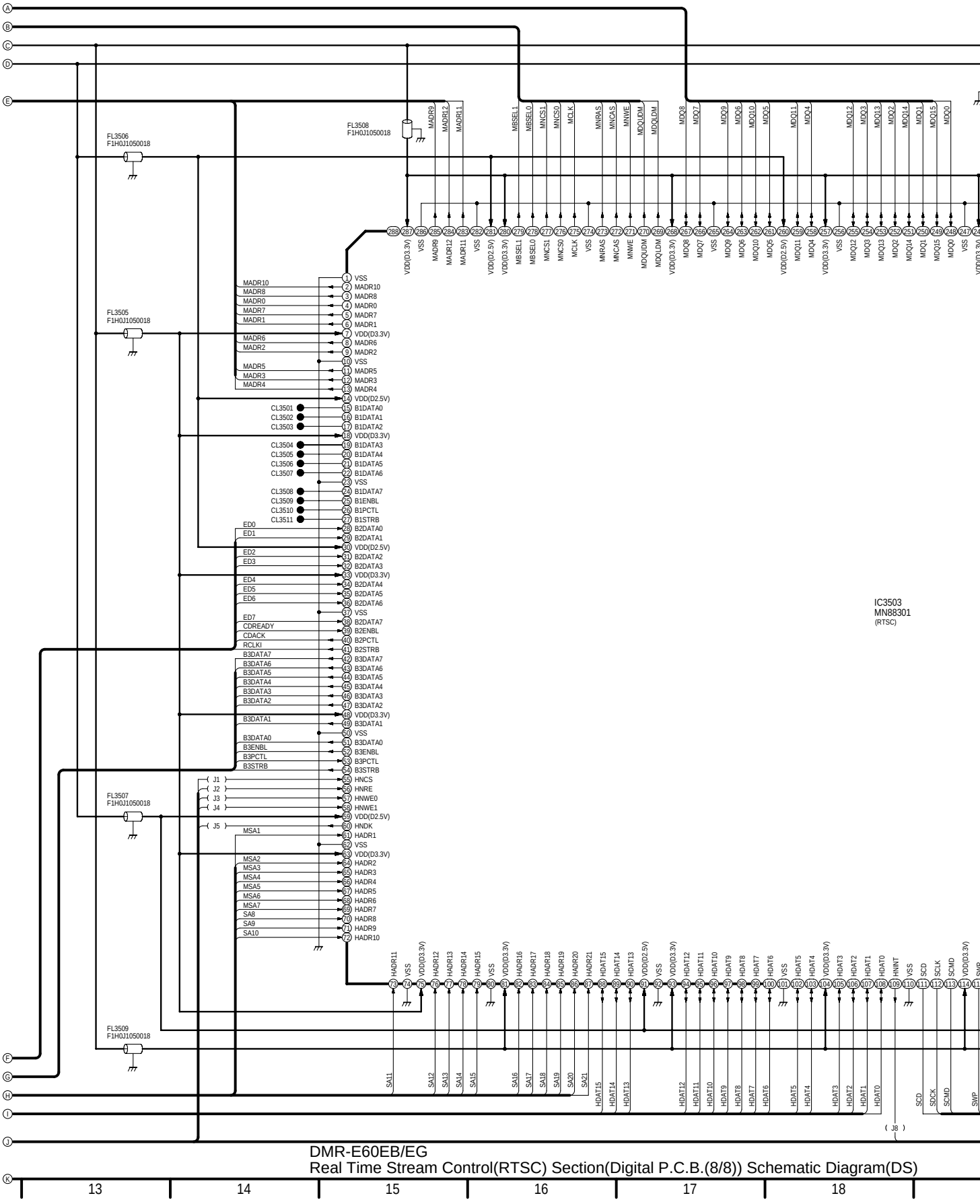
14.15. Real Time Control (RTSC) Schematic Diagram (DS) (Digital P.C.B. 8/8)



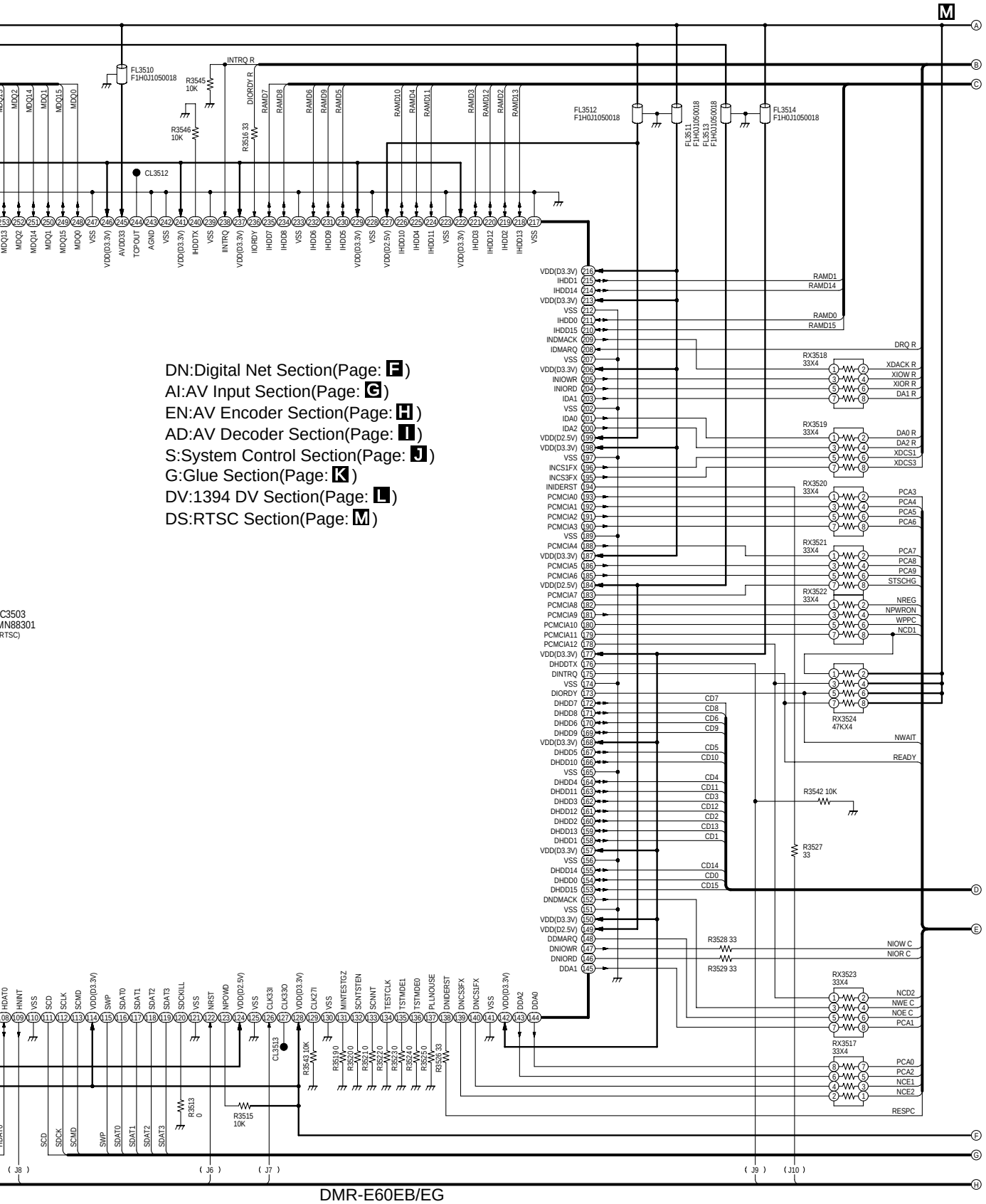
ecoder Section(Page: I)
ction(Page: M)



DMR-E60EB/EG
Real Time Stream Control(RTSC) Section(Digital P.C.B.(8/8)) Schematic Diagram(DS)



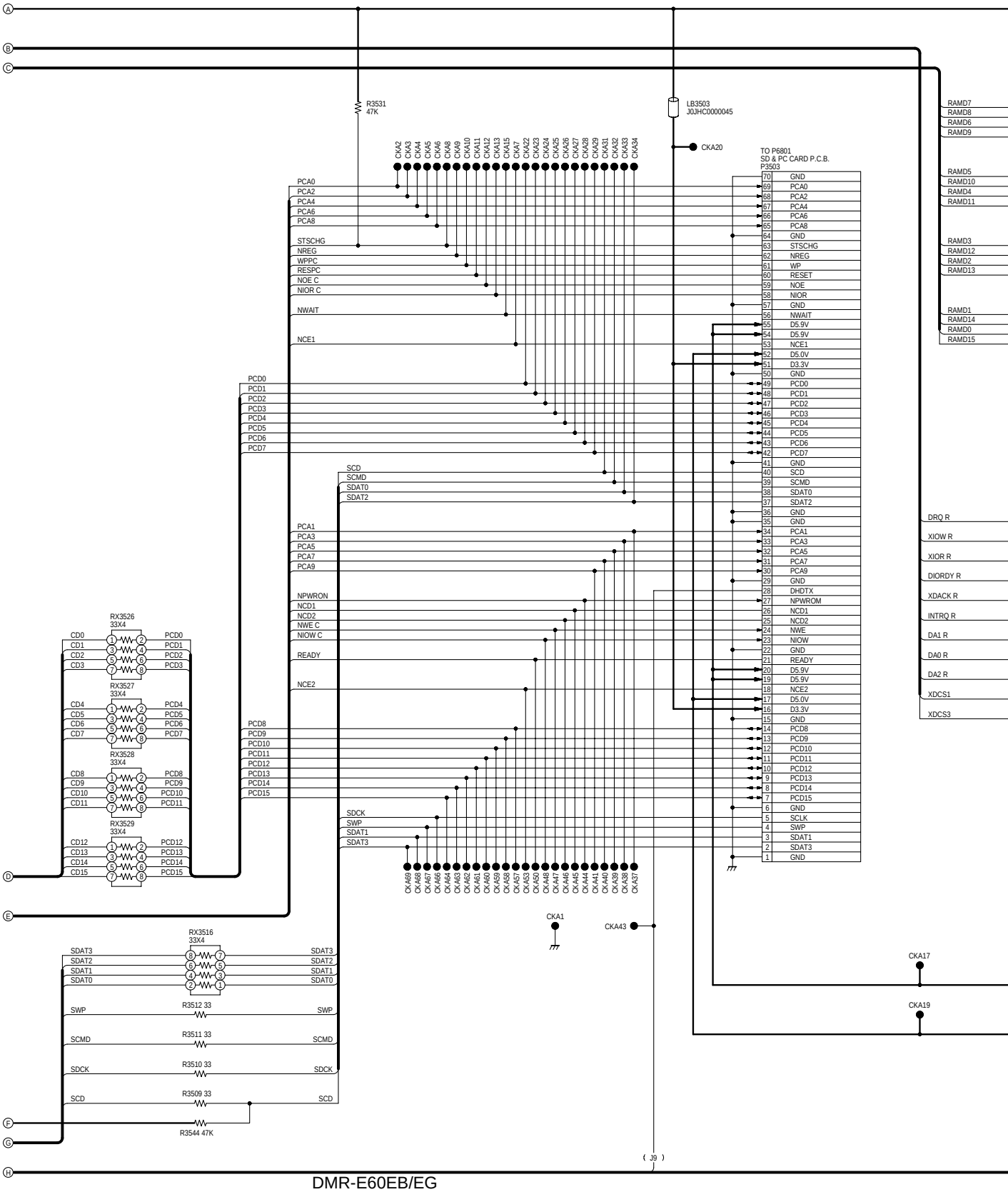
DMR-E60EB/EG
Real Time Stream Control(RTSC) Section(Digital P.C.B.(8/8)) Schematic Diagram(DS)



DMR-E60EB/EG

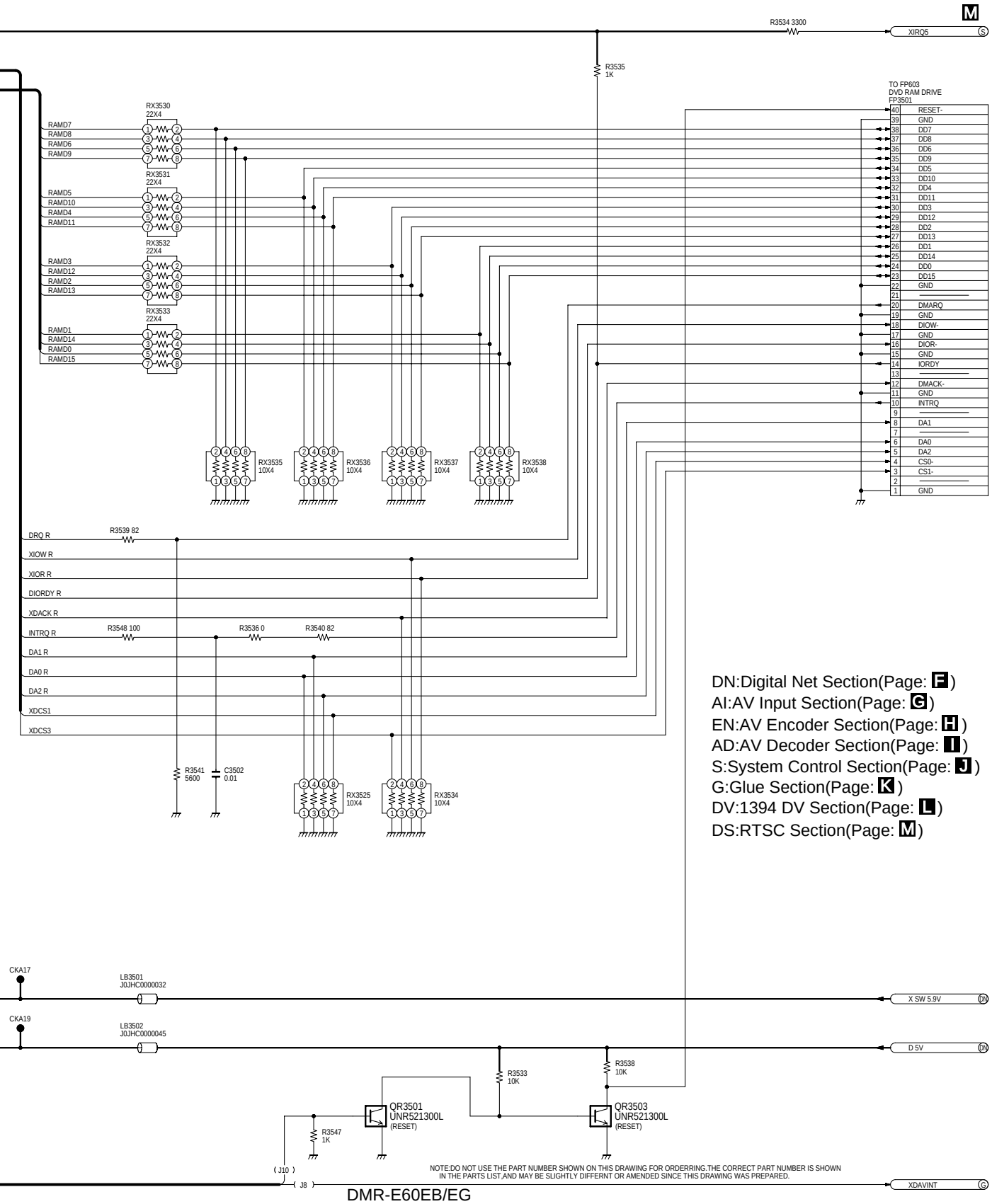
m(DS) Real Time Stream Control(RTSC) Section(Digital P.C.B.(8/8)) Schematic Diagram(DS)

19 20 21 22 23 24



DMR-E60EB/EG

Real Time Stream Control(RTSC) Section(Digital P.C.B.(8/8)) Schematic Diagram(DS)



DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)

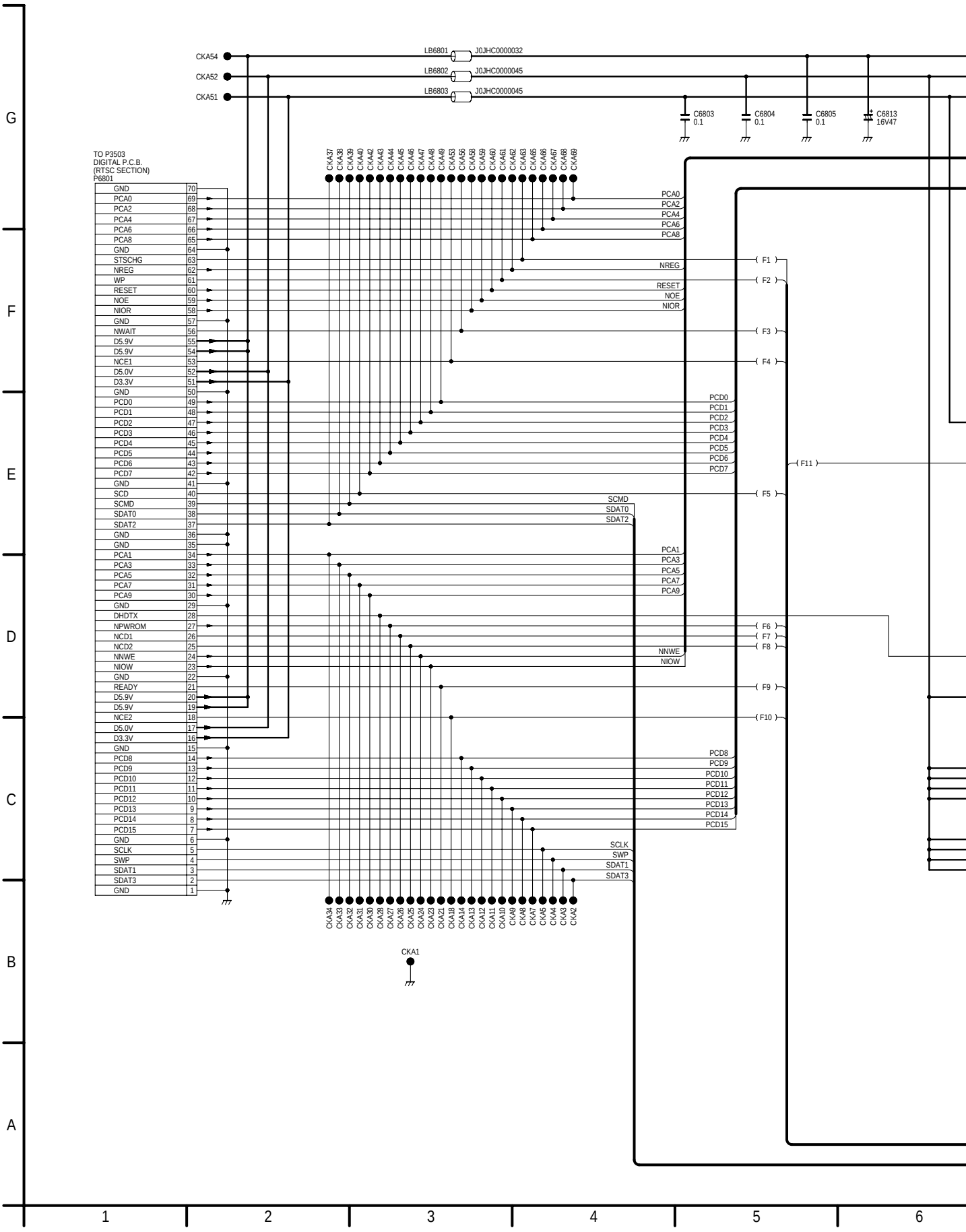
DMR-E60EB/EG

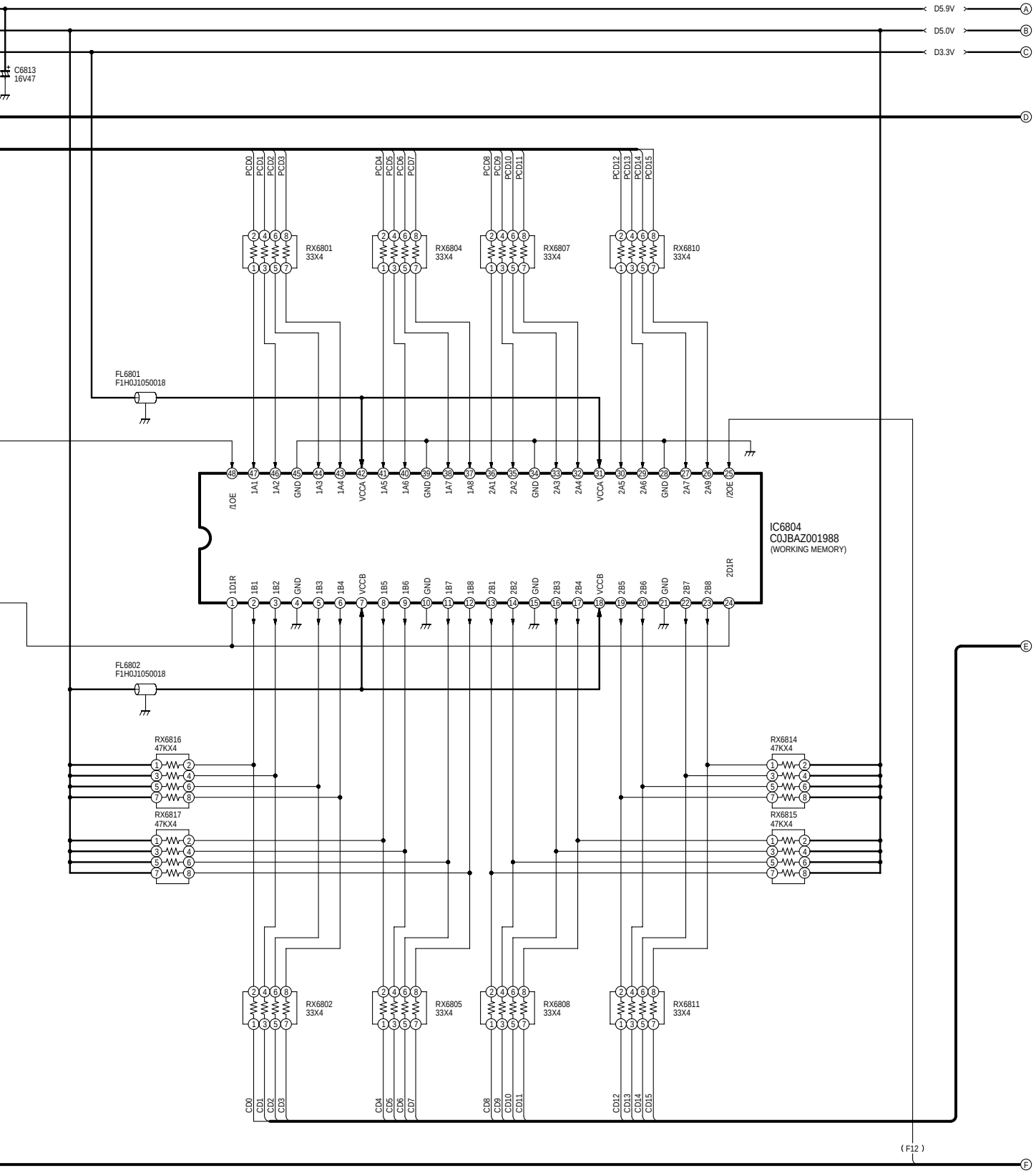
Real Time Stream Control(RTSC) Section(Digital P.C.B.(8/8)) Schematic Diagram(DS)

am(DS)

31	32	33	34	35	36

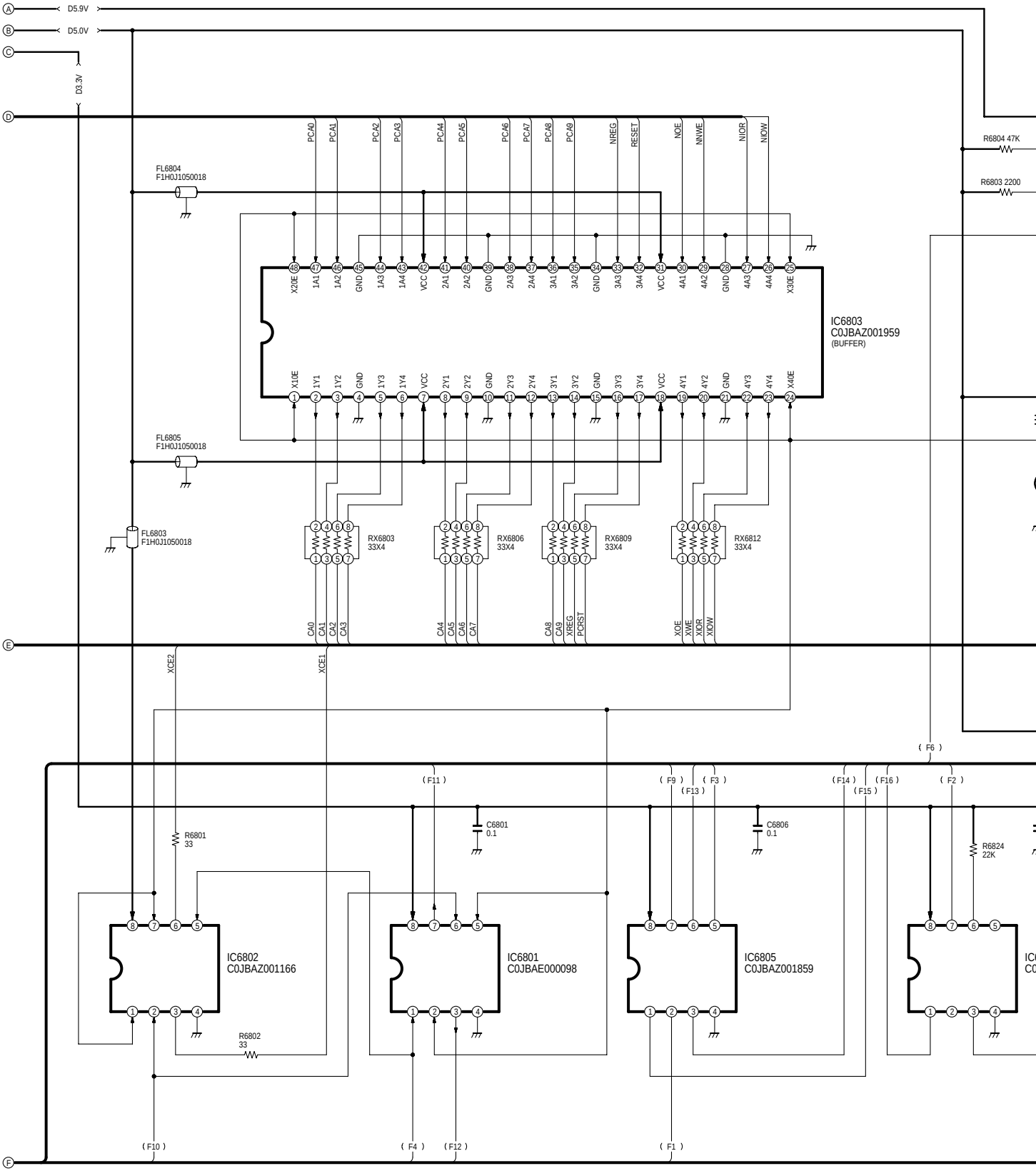
14.16. SD & PC Card Schematic Diagram





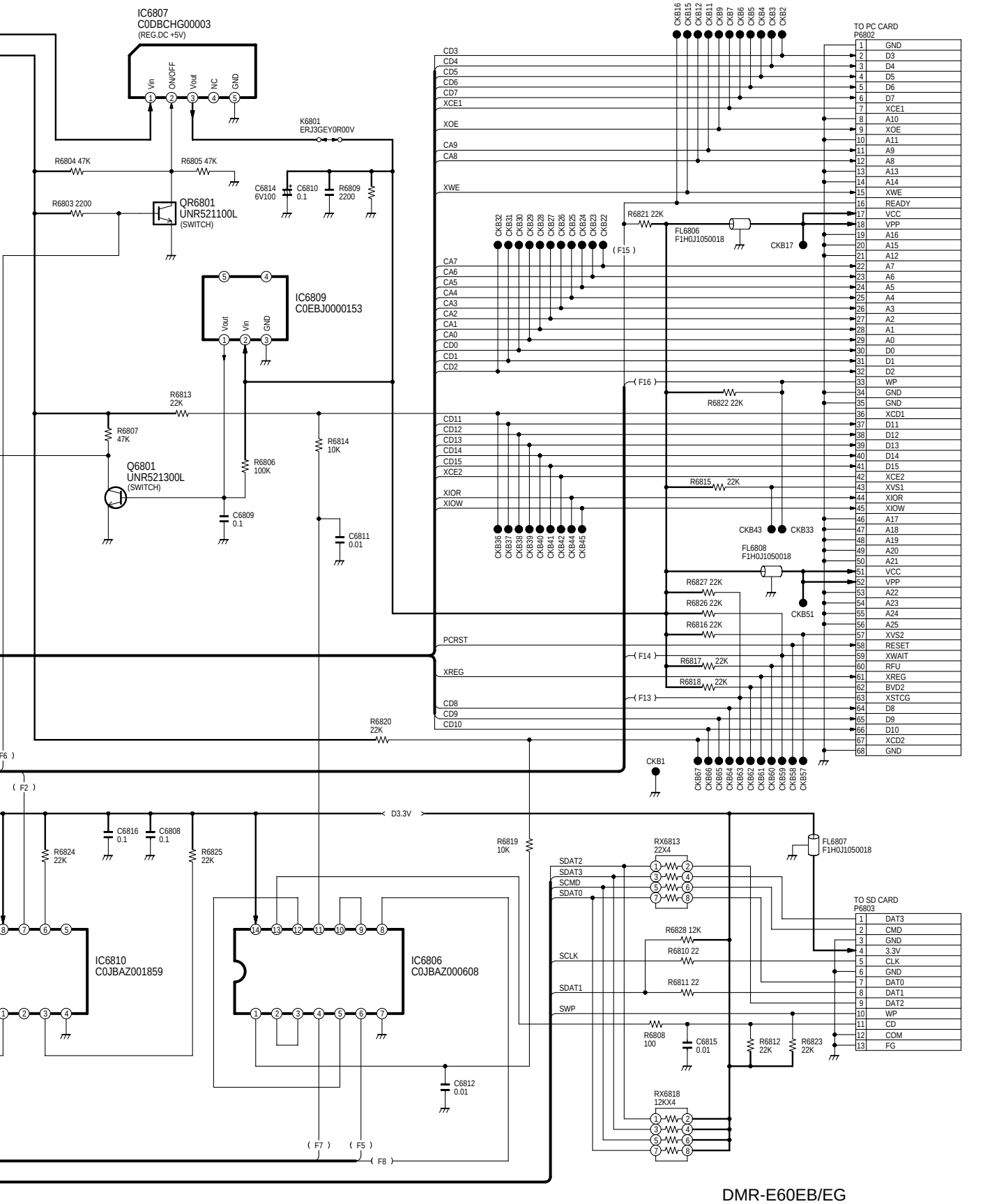
DMR-E60EB/EG
SD & PC Card Schematic Diagram

6 | 7 | 8 | 9 | 10 | 11



DMR-E60EB/EG
SD & PC Card Schematic Diagram

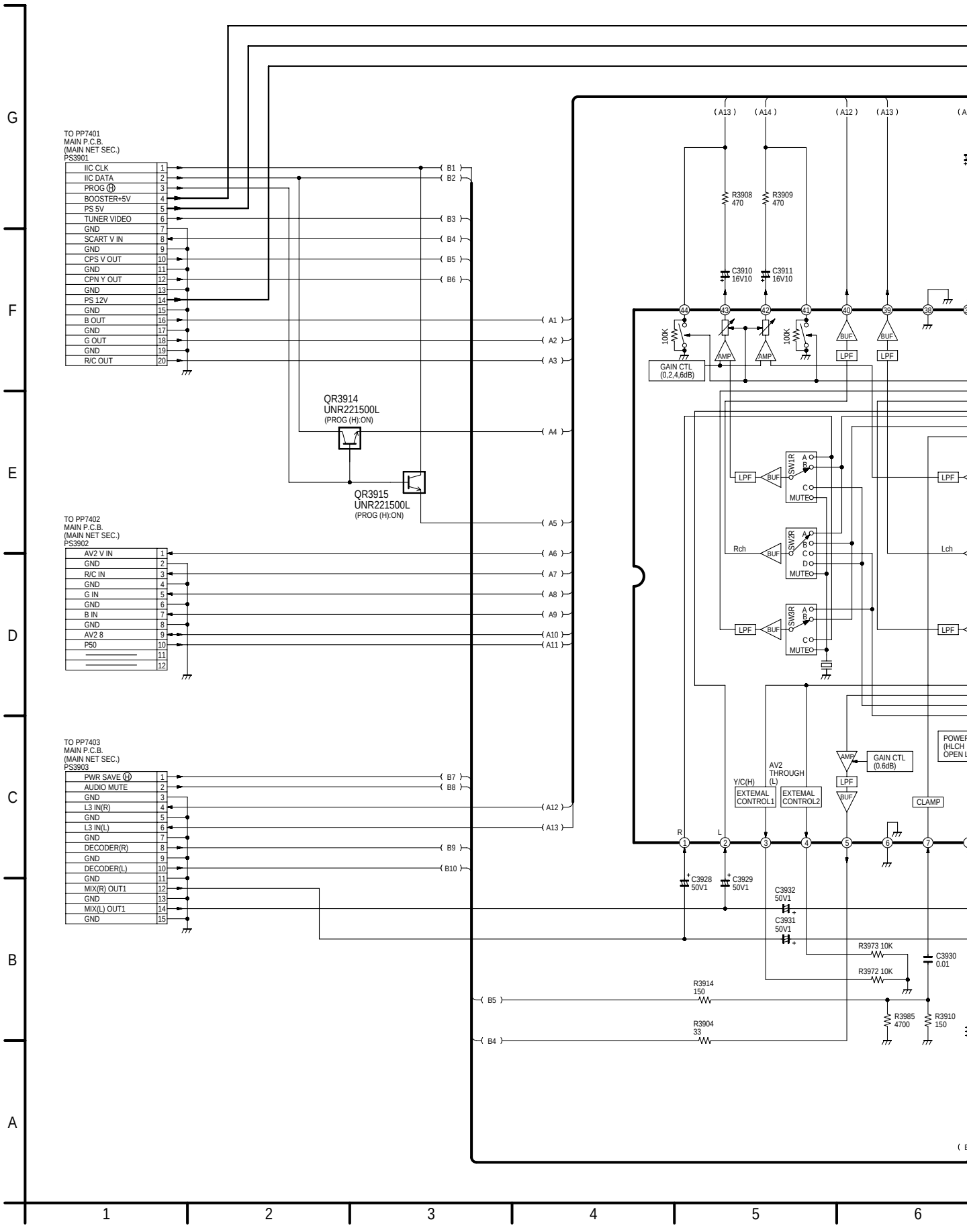
12 | 13 | 14 | 15 | 16 | 17

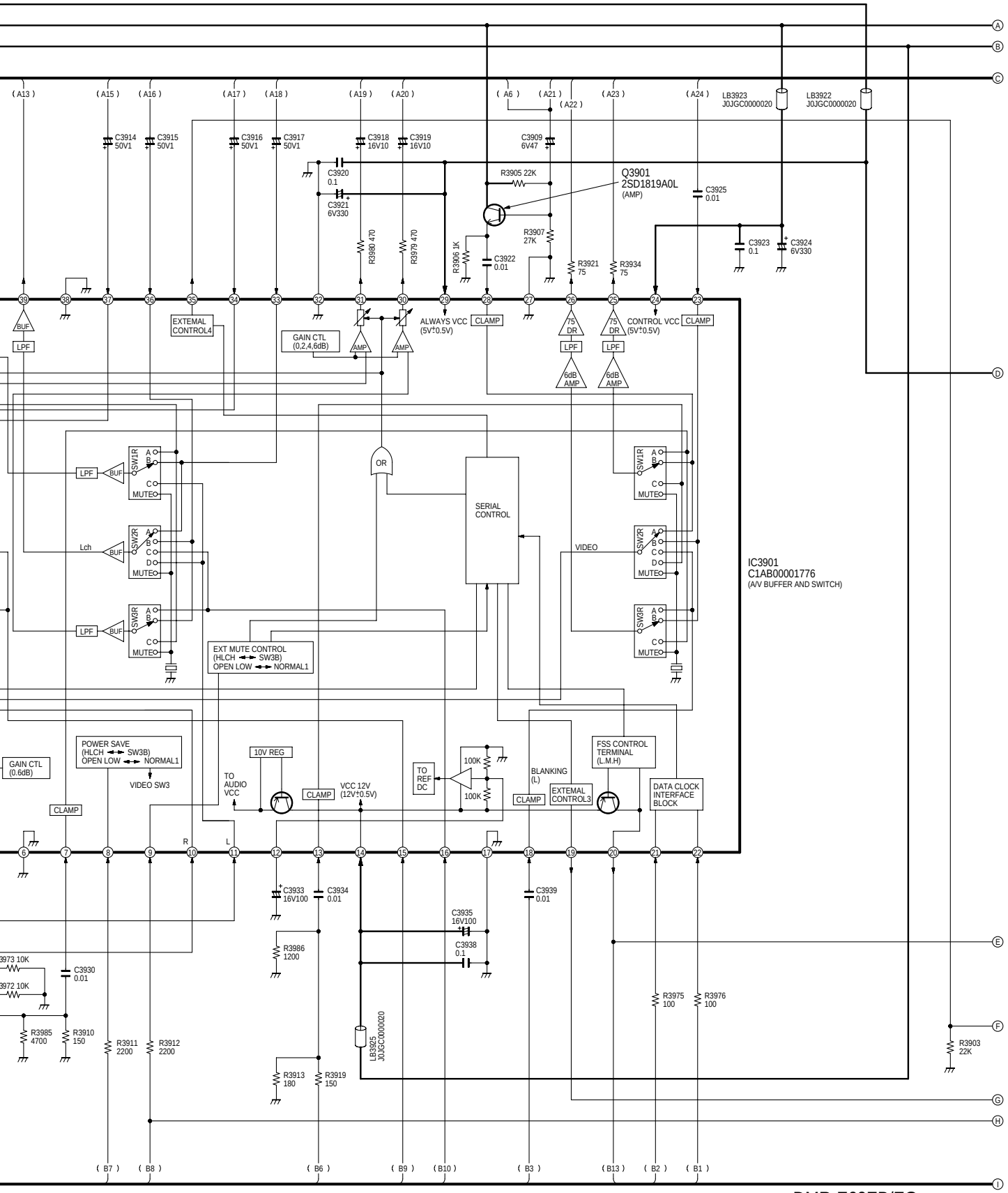


DMR-E60EB/EG
SD & PC Card Schematic Diagram

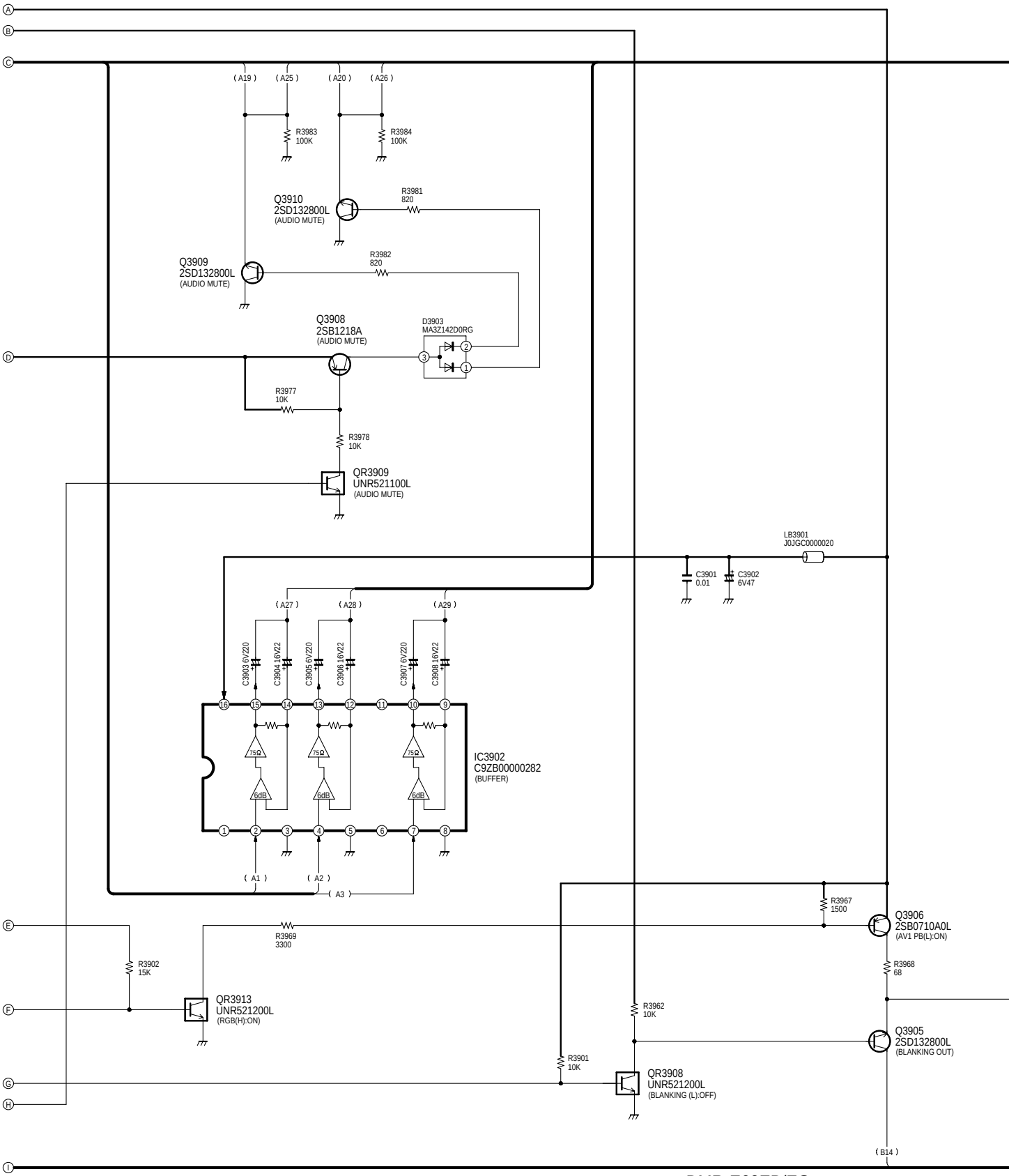
17	18	19	20	21	22

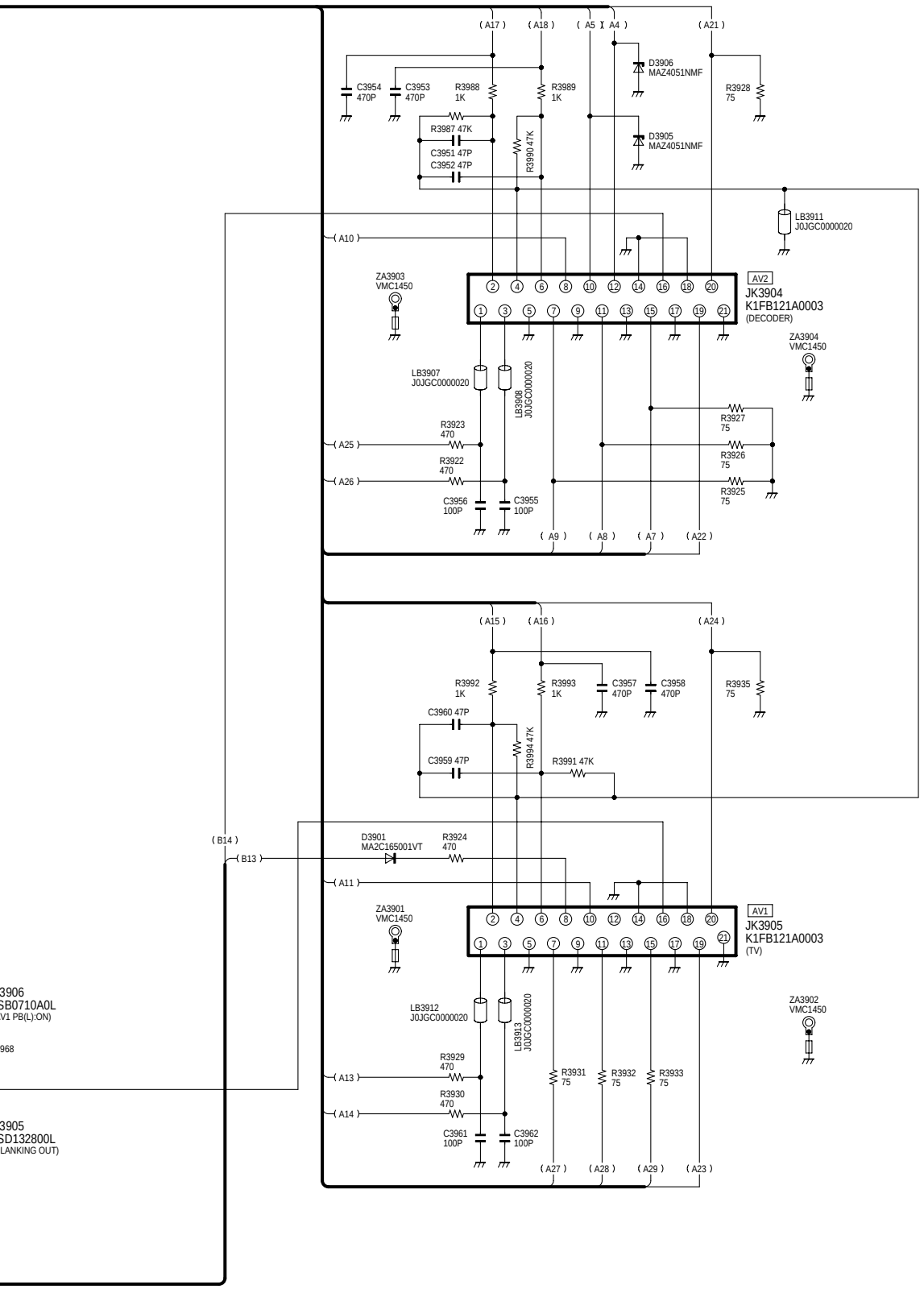
14.17. Scart Schematic Diagram





DMR-E60EB/EG
Scart Schematic Diagram


(A19)
(A25)
(A20)
(A26)
R3983
100K
R3984
100K
Q3910
2SD132800L
(AUDIO MUTE)
R3981
820
Q3909
2SD132800L
(AUDIO MUTE)
R3982
820
Q3908
2SB1218A
(AUDIO MUTE)
D3903
MA3Z142D0RG
R3977
10K
R3978
10K
QR3909
UNR521100L
(AUDIO MUTE)
LB3901
J0JGC0000020
C3901
0.01
C3902
6V47
(A27)
(A28)
(A29)
C3903 6V220
C3904 16V22
C3905 6V220
C3906 16V22
C3907 6V220
C3908 16V22
75Ω
6dB
IC3902
C9ZB00000282
(BUFFER)
(A1)
(A2)
A3
R3967
1500
Q3906
2SB0710A0L
(AV1 PB(L):ON)
R3969
3300
R3902
15K
R3968
68
QR3913
UNR521200L
(RGB(H):ON)
R3962
10K
Q3905
2SD132800L
(BLANKING OUT)
R3901
10K
QR3908
UNR521200L
(BLANKING (L):OFF)
(B14)
DMR-E60EB/EG
Scart Schematic Diagram
12
13
14
15
16
17



AV2

1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	AV2 +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C IN
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN/Y IN
21	GND

AV1

1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	PB +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C OUT
16	BLANKING
17	GND
18	GND
19	VIDEO OUT/Y OUT
20	VIDEO IN
21	GND

3906
SB0710A0L
V1 PB(L):ON)

968

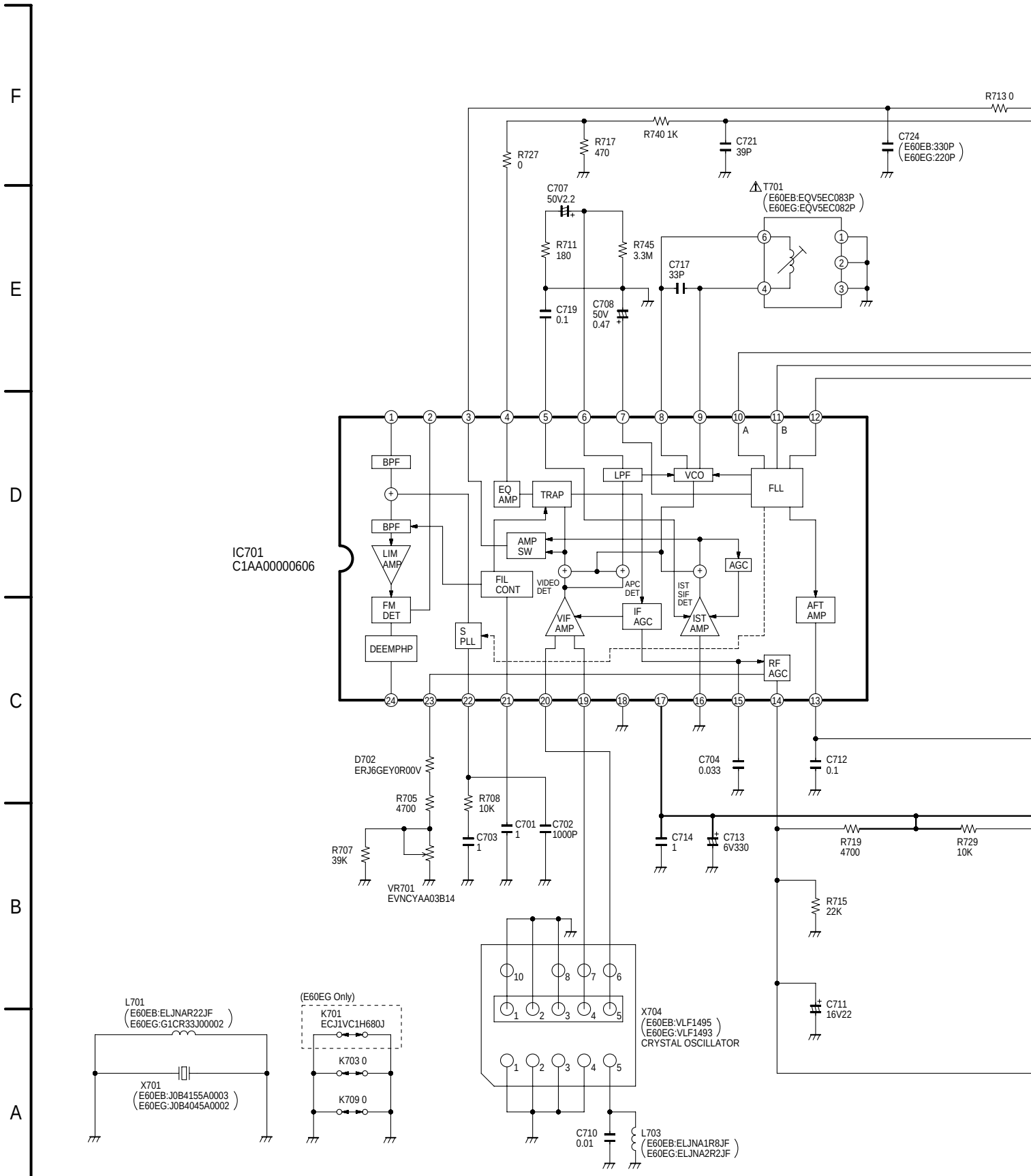
3905
SD132800L
LANKING OUT)

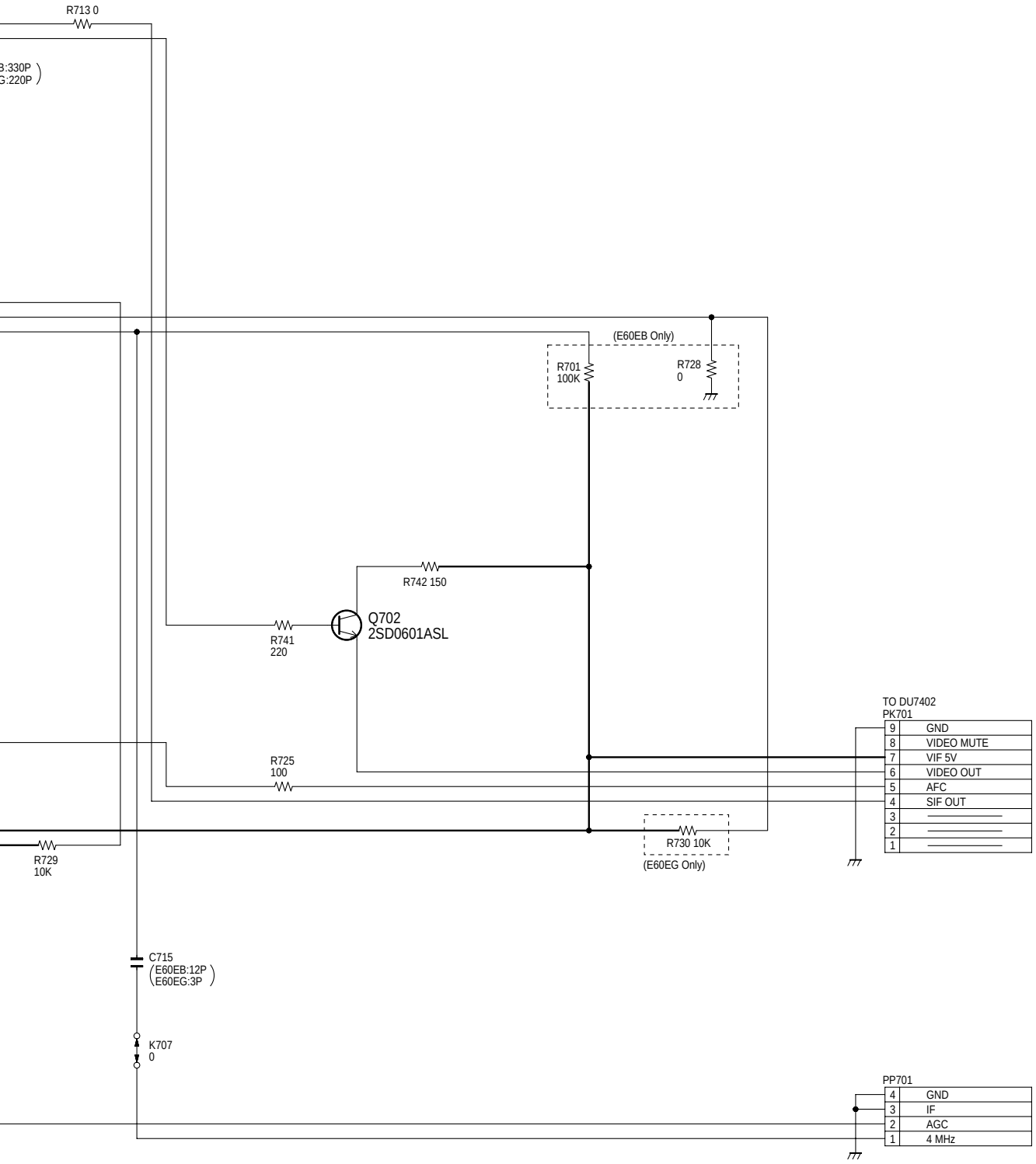
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Scart Schematic Diagram

17	18	19	20	21	22

14.18. VIF Decoder Schematic Diagram





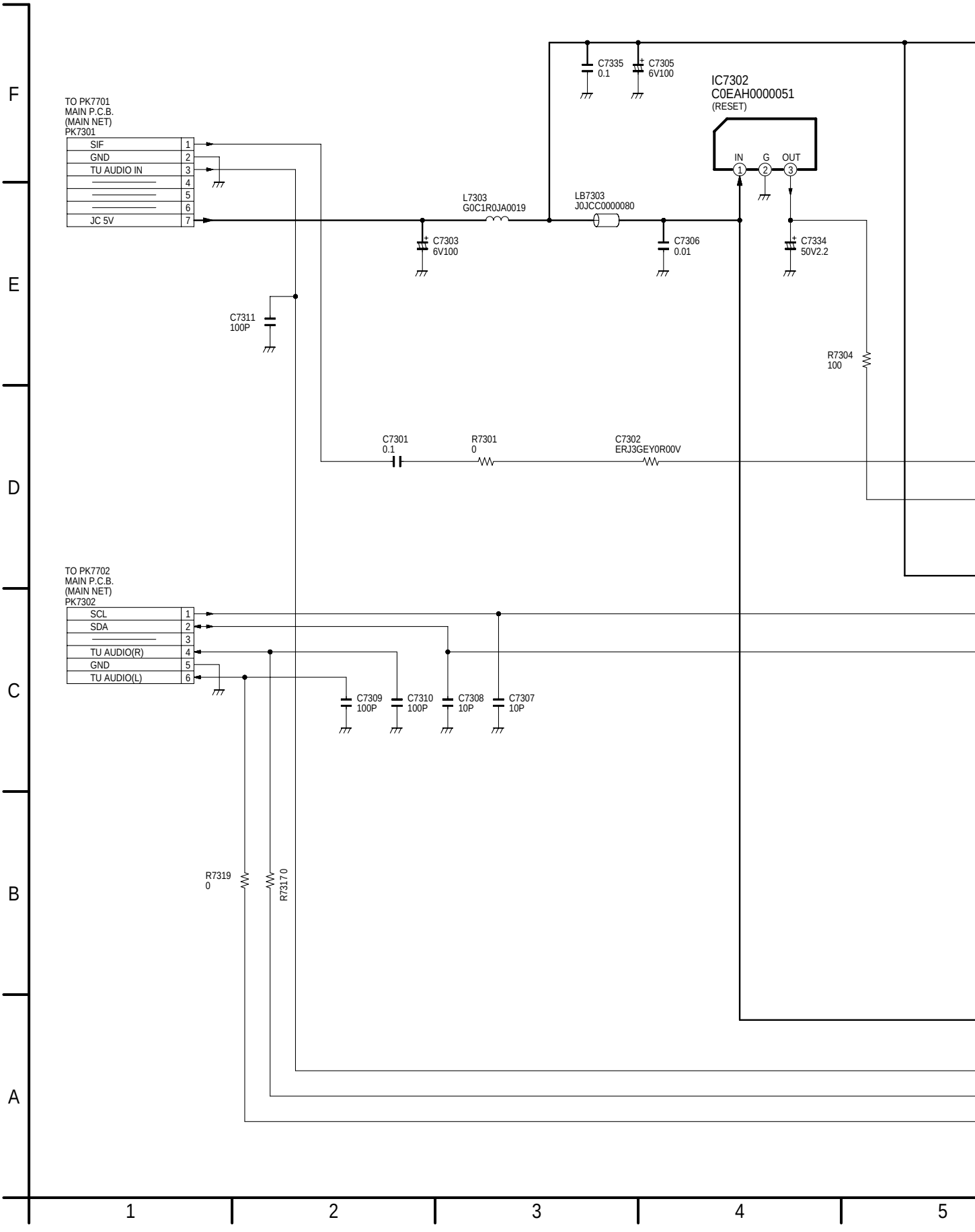
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

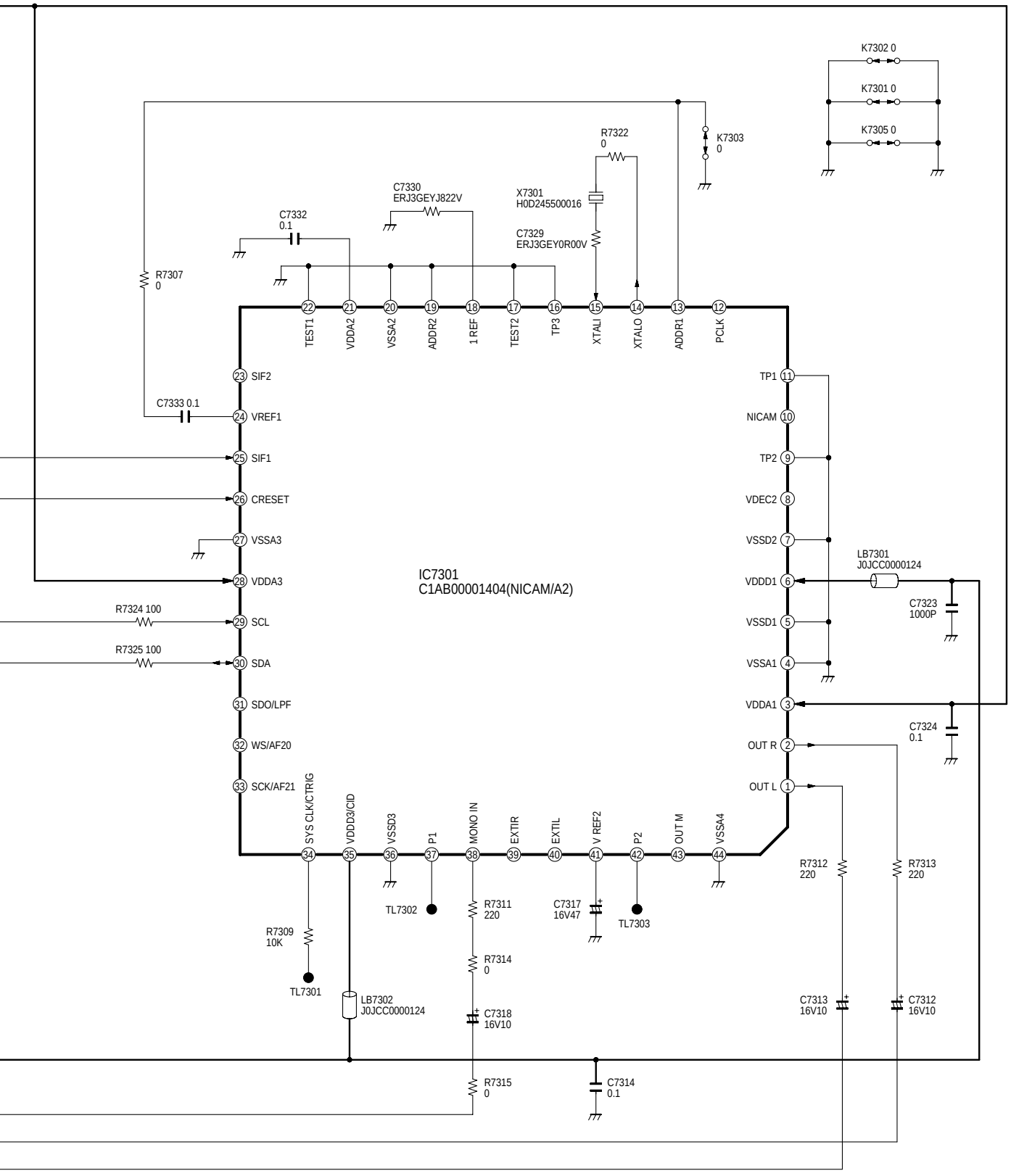
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E60EB/EG
VIF Decoder Schematic Diagram

5 | 6 | 7 | 8

14.19. Nicam/Decoder Schematic Diagram



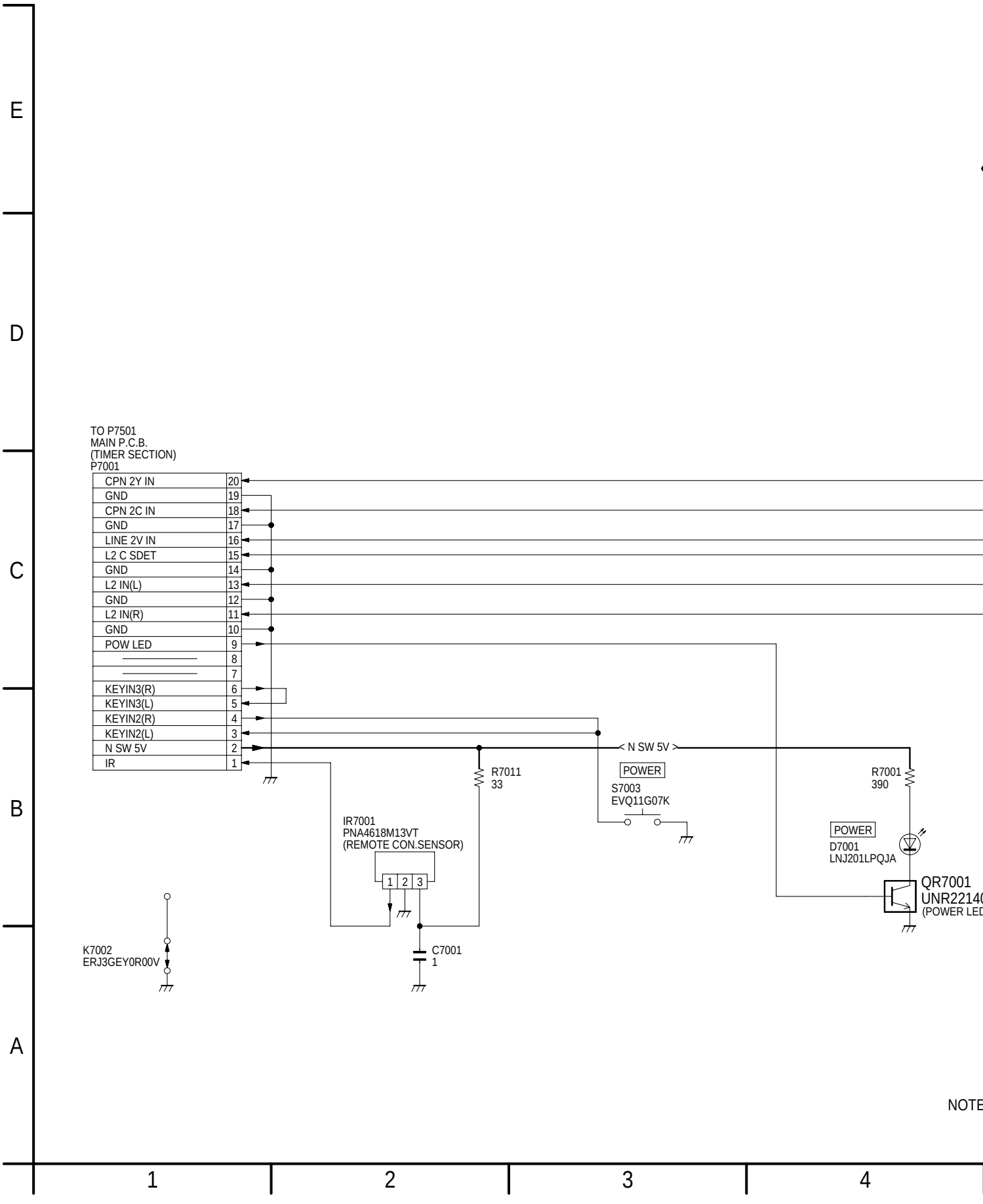


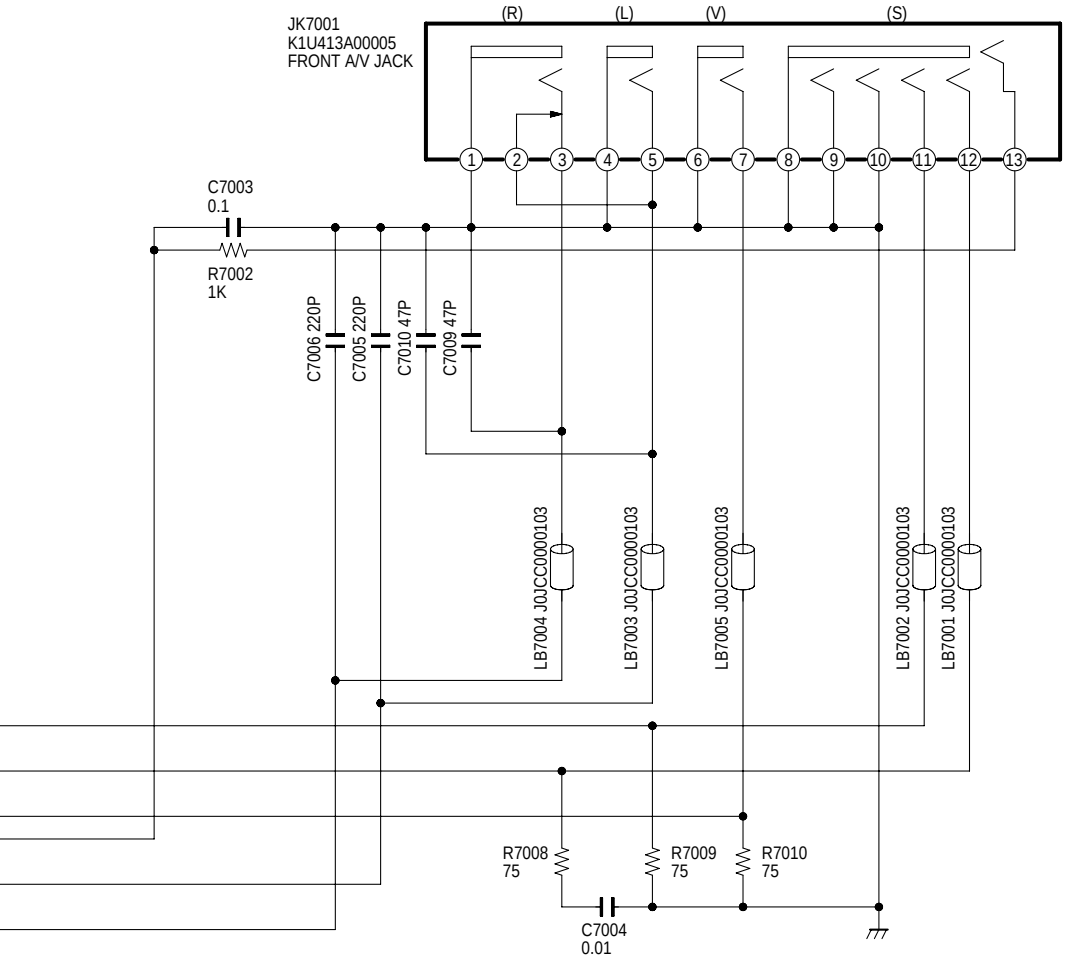
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

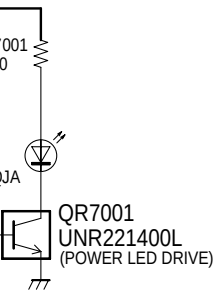
DMR-E60EB/EG
Nicam/Decoder Schematic Diagram

5 | 6 | 7 | 8

14.20. Front (L) Schematic Diagram





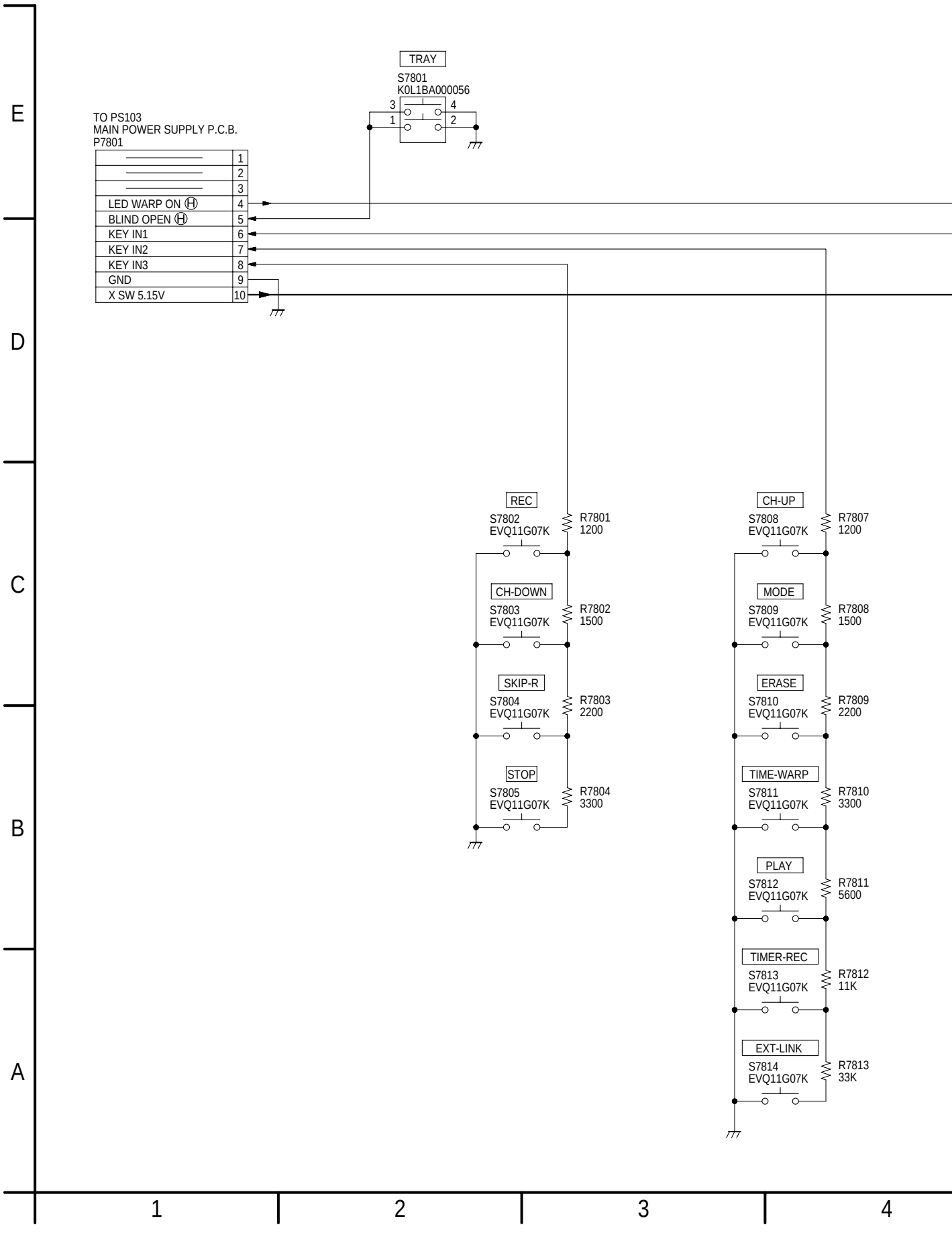


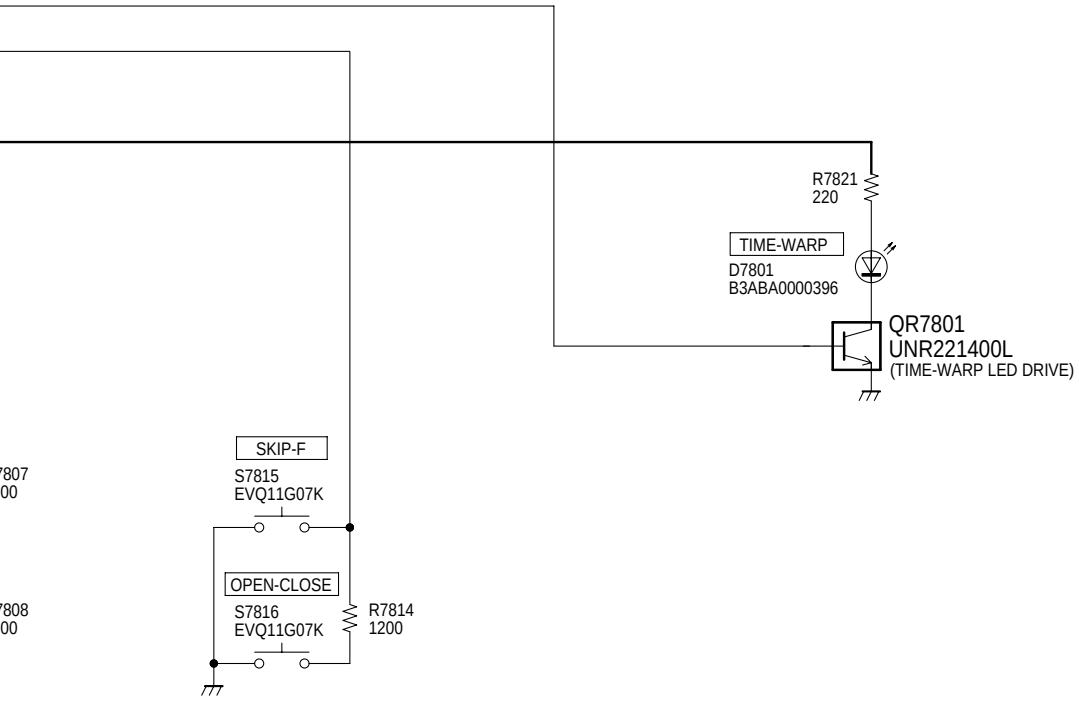
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Front (L) Schematic Diagram

5 | 6 | 7

14.21. Front (R) Schematic Diagram





NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Front (R) Schematic Diagram

4 | 5 | 6 | 7

Ref No.	PP9701																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	-	-	-	-	-	0	1.7	0	1.7	0	1.7	0	1.7	0	0.9	1.0	0	1.0	0	1.2
PLAY	-	-	-	-	-	0	1.7	0	1.7	0	1.7	0	1.7	0	0.9	0.9	0	0.9	0	1.2
STOP	-	-	-	-	-	0	1.7	0	1.7	0	1.7	0	1.7	0	0.9	0.9	0	0.9	0	1.2

Ref No.	PP9701																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	0	1.8	0	-	-	-	0	1.7	0	2.0										
PLAY	0	1.8	0	-	-	-	0	1.7	0	2.0										
STOP	0	1.8	0	-	-	-	0	1.6	0	2.0										

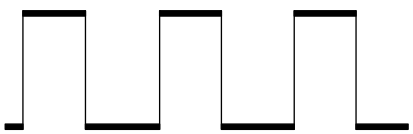
Ref No.	PP9702																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	3.3	6.4	1.5	1.8	1.8	0	-	-	-	-	2.5	0	2.5	0	0	1.6	0	2.5	0
PLAY	5.0	3.3	6.4	1.5	1.9	1.9	0	-	-	-	-	2.5	0	2.5	0	0	1.6	0	2.5	0
STOP	5.0	3.3	6.2	1.5	1.9	1.9	0	-	-	-	-	2.5	0	2.5	0	0	1.6	0	2.5	0

Ref No.	PP9702																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	2.5	5.0	2.4	0	0	1.8	1.5	6.4	3.3	5.0										
PLAY	2.5	5.0	2.4	0	0	1.9	1.5	6.4	3.3	5.0										
STOP	2.5	5.0	2.4	0	0	1.9	1.5	6.2	3.3	5.0										

Ref No.	PP9703																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	-	5.0	5.0	-	-	-	-	-	-	-	2.5	0	0	3.3	3.3	4.9	-	2.5	0
PLAY	0	-	5.0	5.0	-	-	-	-	-	-	-	2.5	0	0	3.4	3.4	4.9	-	2.5	0
STOP	0	-	5.0	5.0	-	-	-	-	-	-	-	2.5	0	0	3.4	3.4	4.9	-	2.5	0

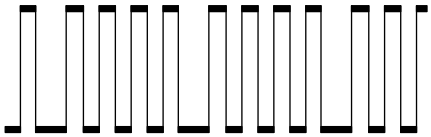
Ref No.	PP9703																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	5.0	4.9	5.0	4.8	4.8	5.0	5.0	-	-	-										
PLAY	5.0	4.9	5.0	4.8	4.8	5.0	5.0	-	-	-										
STOP	5.0	4.9	5.0	4.8	4.8	5.0	5.0	-	-	-										

WF No. PP9701-15 (REC/PLAY)



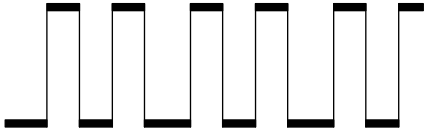
0.6Vp-p(20usec/div)

WF No. PP9701-16 (REC/PLAY)



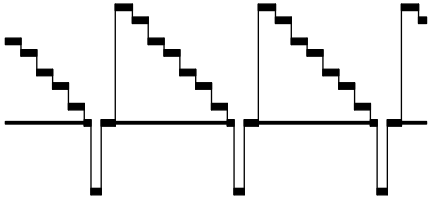
0.6Vp-p(20usec/div)

WF No. PP9701-18 (REC/PLAY)



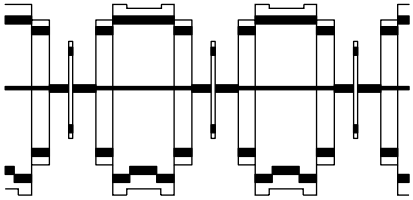
0.6Vp-p(20usec/div)

WF No. PP9701-20 (REC/PLAY)



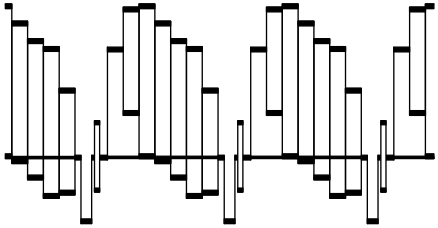
0.9Vp-p(20usec/div)

WF No. PP9701-22 (REC/PLAY)



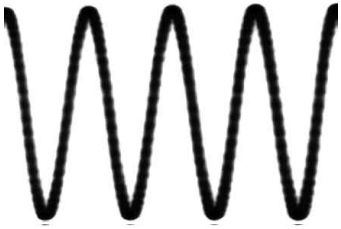
1.0Vp-p(20usec/div)

WF No. PP9701-28 (REC/PLAY)



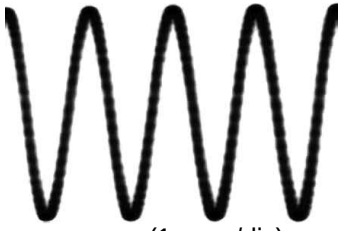
2.0Vp-p(20usec/div)

WF No. PP9702-12 (REC/PLAY)



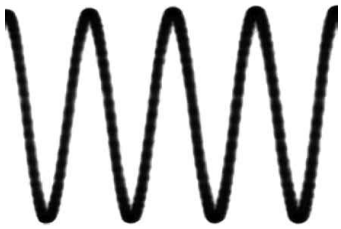
1.7Vp-p(1msec/div)

WF No. PP9702-14 (REC/PLAY)



1.7Vp-p(1msec/div)

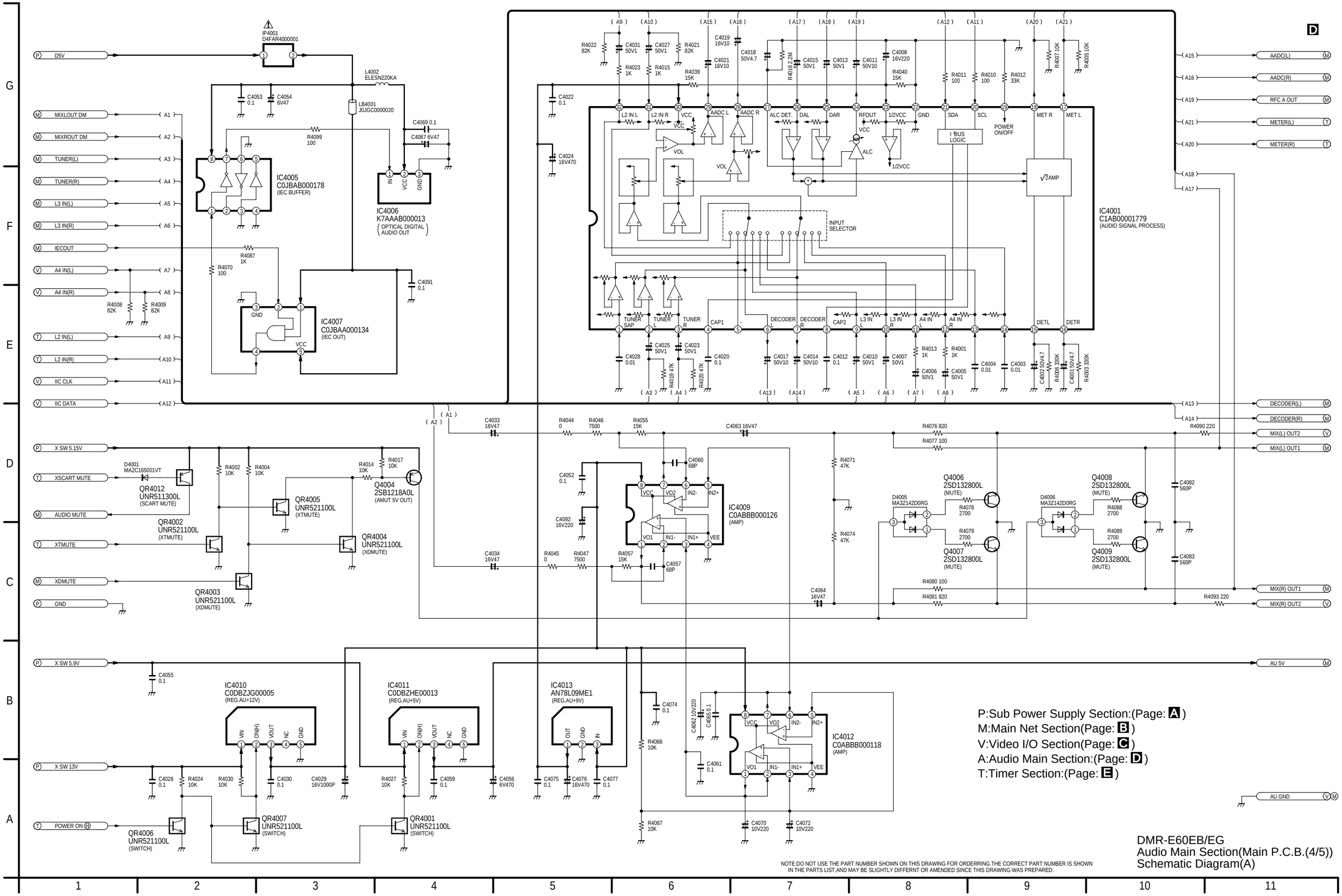
WF No. PP9702-19 (REC/PLAY)



1.8Vp-p(1msec/div)

WF No. PP9702-21 (REC/PLAY)

1.8Vp-p(1msec/div)


IP4001
D4FAR4000001
D5V
L4002
ELESN220KA
C4053 0.1
C4054 6V47
LB4001
J0JGC0000020
C4069 0.1
C4067 6V47
MIXLOUT DM
MIXROUT DM
TUNER(L)
TUNER(R)
L3 IN(L)
L3 IN(R)
IECOUT
A4 IN(L)
A4 IN(R)
L2 IN(L)
L2 IN(R)
IIC CLK
IIC DATA
R4099 100
IC4005
C0JBAB000178
(IEC BUFFER)
IC4006
K7AAAB000013
OPTICAL DIGITAL AUDIO OUT
R4087 1K
R4070 100
C4091 0.1
R4008 82K
R4009 82K
IC4007
C0JBAA000134
(IEC OUT)
C4022 0.1
C4024 16V470
C4019 16V10
C4018 50V4.7
C4021 16V10
R4022 82K
R4023 1K
R4015 1K
R4021 82K
C4031 50V1
C4027 50V1
R4039 15K
R4016 2.2M
C4015 50V1
C4013 50V1
C4011 50V10
C4008 16V220
R4040 15K
R4011 100
R4010 100
R4012 33K
R4007 10K
R4005 10K
L2 IN L
L2 IN R
VCC
AADC L
AADC R
ALC DET.
DAL
DAR
RFOUT
1/2VCC
GND
SDA
SCL
MET R
MET L
I²BUS LOGIC
POWER ON/OFF
VOL
ALC
√2AMP
INPUT SELECTOR
TUNER SAP
TUNER L
TUNER R
CAP1
DECODER L
DECODER R
CAP2
L3 IN L
L3 IN R
A4 IN L
A4 IN R
DETL
DETR
C4025 50V1
C4023 50V1
C4028 0.01
C4020 0.1
R4019 47K
R4020 47K
C4017 50V10
C4014 50V10
C4012 0.1
C4010 50V1
C4007 50V1
R4013 1K
R4001 1K
C4006 50V1
C4005 50V1
C4004 0.01
C4003 0.01
C4002 50V4.7
R4006 330K
C4001 50V4.7
R4003 330K
IC4001
C1AB00001779
(AUDIO SIGNAL PROCESS)
AADC(L)
AADC(R)
RFC A OUT
METER(L)
METER(R)
DECODER(L)
DECODER(R)
MIX(L) OUT2
MIX(L) OUT1
MIX(R) OUT1
MIX(R) OUT2
R4090 220
R4093 220
C4033 16V47
C4034 16V47
C4063 16V47
C4064 16V47
R4044 0
R4046 7500
R4055 15K
R4045 0
R4047 7500
R4057 15K
C4060 68P
C4057 68P
C4052 0.1
C4092 16V220
IC4009
C0ABBB000126
(AMP)
R4076 820
R4077 100
R4071 47K
R4074 47K
R4080 100
R4081 820
Q4006
2SD132800L
(MUTE)
Q4007
2SD132800L
(MUTE)
Q4008
2SD132800L
(MUTE)
Q4009
2SD132800L
(MUTE)
D4005
MA3Z142D0RG
D4006
MA3Z142D0RG
R4078 2700
R4079 2700
R4088 2700
R4089 2700
C4082 560P
C4083 560P
X SW 5.15V
XSCART MUTE
AUDIO MUTE
XTMUTE
XDMUTE
GND
D4001
MA2C165001VT
QR4012
UNR511300L
(SCART MUTE)
QR4002
UNR521100L
(XTMUTE)
QR4005
UNR521100L
(XTMUTE)
QR4004
UNR521100L
(XDMUTE)
QR4003
UNR521100L
(XDMUTE)
R4002 10K
R4004 10K
R4014 10K
R4017 10K
Q4004
2SB1218A0L
(AMUT 5V OUT)
X SW 5.9V
AU 5V
AU GND
C4055 0.1
IC4010
C0DBZJG00005
(REG.AU+12V)
IC4011
C0DBZHE00013
(REG.AU+5V)
IC4013
AN78L09ME1
(REG.AU+9V)
VIN
ON(H)
VOUT
NC
GND
OUT
GND
IN
C4074 0.1
R4066 10K
C4062 10V220
C4065 0.1
C4061 0.1
IC4012
C0ABBB000118
(AMP)
C4070 10V220
C4072 10V220
R4067 10K
X SW 13V
C4026 0.1
R4024 10K
R4030 10K
C4030 0.1
C4029 16V1000P
R4027 10K
C4059 0.1
C4056 6V470
C4075 0.1
C4076 16V470
C4077 0.1
POWER ON (H)
QR4006
UNR521100L
(SWITCH)
QR4007
UNR521100L
(SWITCH)
QR4001
UNR521100L
(SWITCH)
P:Sub Power Supply Section:(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section:(Page: D)
T:Timer Section:(Page: E)
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E60EB/EG
Audio Main Section(Main P.C.B.(4/5))
Schematic Diagram(A)

MAIN P.C.B.

MAIN P.C.B.

SCART P.C.B.

:REC SIGNAL

:PB SIGNAL

AV4
JK3001
REAR JACK

LINE OUT (L)

LINE OUT (R)

MIX L OUT2

MIX R OUT2

D4005 Q4006 MUTE

Q4007 MUTE

D4006 Q4008 MUTE

Q4009 MUTE

QR4002-QR4005
Q4004
MUTE CIRCUIT

FROM TIMER

IC7502- 20 XTMUTE

IC7502- 57 XSCART MUTE

QR4012
SCART MUTE OUT

XDMUTE

MIX L OUT1

MIX R OUT1

AUDIO MUTE

PP7403	PS3903
14	14
PP7403	PS3903
12	12
PP7403	PS3903
2	2

Q3908,
QR3909
SWITCH

D3903 Q3910 MUTE

Q3909 MUTE

IC4001
(AUDIO SIGNAL PROCESS)

FROM DIGITAL P.C.B.

PS9002	PP9702
23	23
PS9002	PP9702
19	19
PS9002	PP9702
21	21

MIX R OUT DM

MIX L OUT DM

IC4009

IC4009

25 DAR

26 DAL

L CH OUT 29

R CH OUT 28

A ADC(L)

A ADC(R)

PP9702	PS9002
12	12
PP9702	PS9002
14	14

TO DIGITAL P.C.B.

IC3901
(A/V BUFFER AND SWITCH)

9 MUTE

40 R CH OUT

39 L CH OUT

AV4
JK3001
REAR JACK

AUDIO LINE IN(R) 21 20

AUDIO LINE IN(L) 17 18

A4 IN(R)

A4 IN(L)

12 A4 IN R

11 A4 IN L

L3 IN R 10

L3 IN L 9

L3 IN(R)

L3 IN(L)

PP7403	PS3903
4	4
PP7403	PS3903
6	6

AV3
JK7001
FRONT JACK

AUDIO FRONT LINE (L) 4 5

AUDIO FRONT LINE (R) 2 3 1

P7001	P7501
13	13
P7001	P7501
11	11

L2 IN(L)

L2 IN(R)

32 L2 IN L

31 L2 IN R

DC L CH 17

DC R CH 18

METER(L)

METER(R)

(IC7502- 101)

(IC7502- 102)

TO TIMER

MIX L OUT1

MIX R OUT1

11 L CH IN

2 L CH IN

10 R CH IN

1 R CH IN

AUDIO OUT CH2(R) 31 1

AUDIO IN CH2(R) 34 2

AUDIO OUT CH1(L) 30 3

AUDIO IN CH1(L) 33 6

AV2
JK3904
DECODER/EXT

DU7402
TUNER

AUDIO IN 2

AUDIO OUT 21

QR7406,7407
MUTE

RFC A MUTE (H)

FROM TIMER IC7502- 52

RFC A OUT

24 RF OUT

IC7301
MSD

38

2

1

PK7701	PK7301
3	3

PK7302	PK7702
4	4
PK7302	PK7702
6	6

TUNER(R)

TUNER(L)

3 TUNER R

2 TUNER L

DECODER R 7

DECODER L 6

DECODER(R)

DECODER(L)

PP7403	PS3903
8	8
PP7403	PS3903
10	10

DECODER(R)

DECODER(L)

15 R CH IN

16 L CH IN

AUDIO OUT CH2(R) 43 1

AUDIO IN CH2(R) 37 2

AUDIO OUT CH1(L) 42 3

AUDIO IN CH1(L) 36 6

AV1
JK3905
TV

FROM DIGITAL P.C.B.

PS9002	PP9702
17	17

IEC OUT

IC4007

D+5V

IC4005

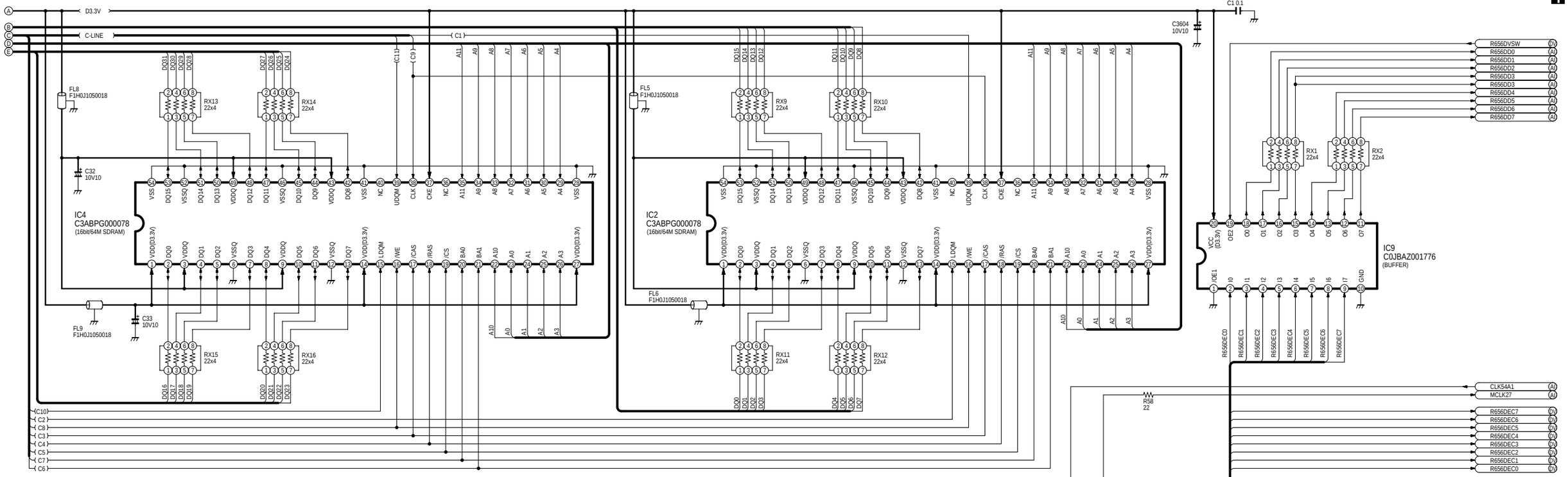
IC4006
OPTICAL
(DIGITAL AUDIO OUT)

DMR-E60EB/EG
Analog Audio Block Diagram

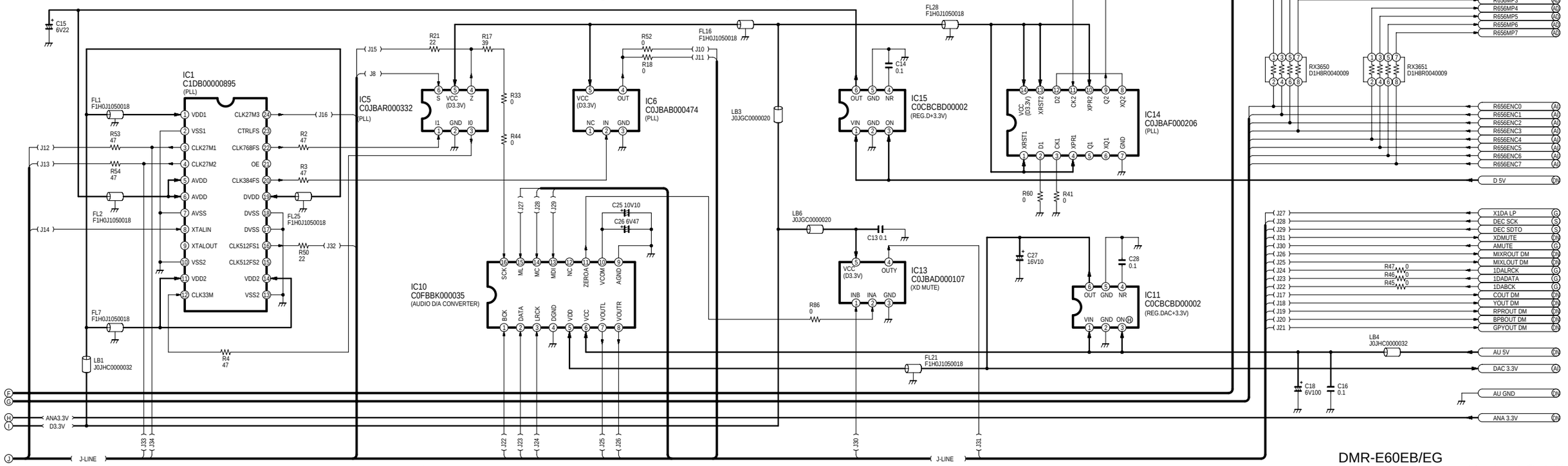
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)

IC3
MN677551NA
(AVDEC)

DMR-E60EB/EG
AV Decoder Section(Digital P.C.B.(4/8)) Schematic Diagram(AD)



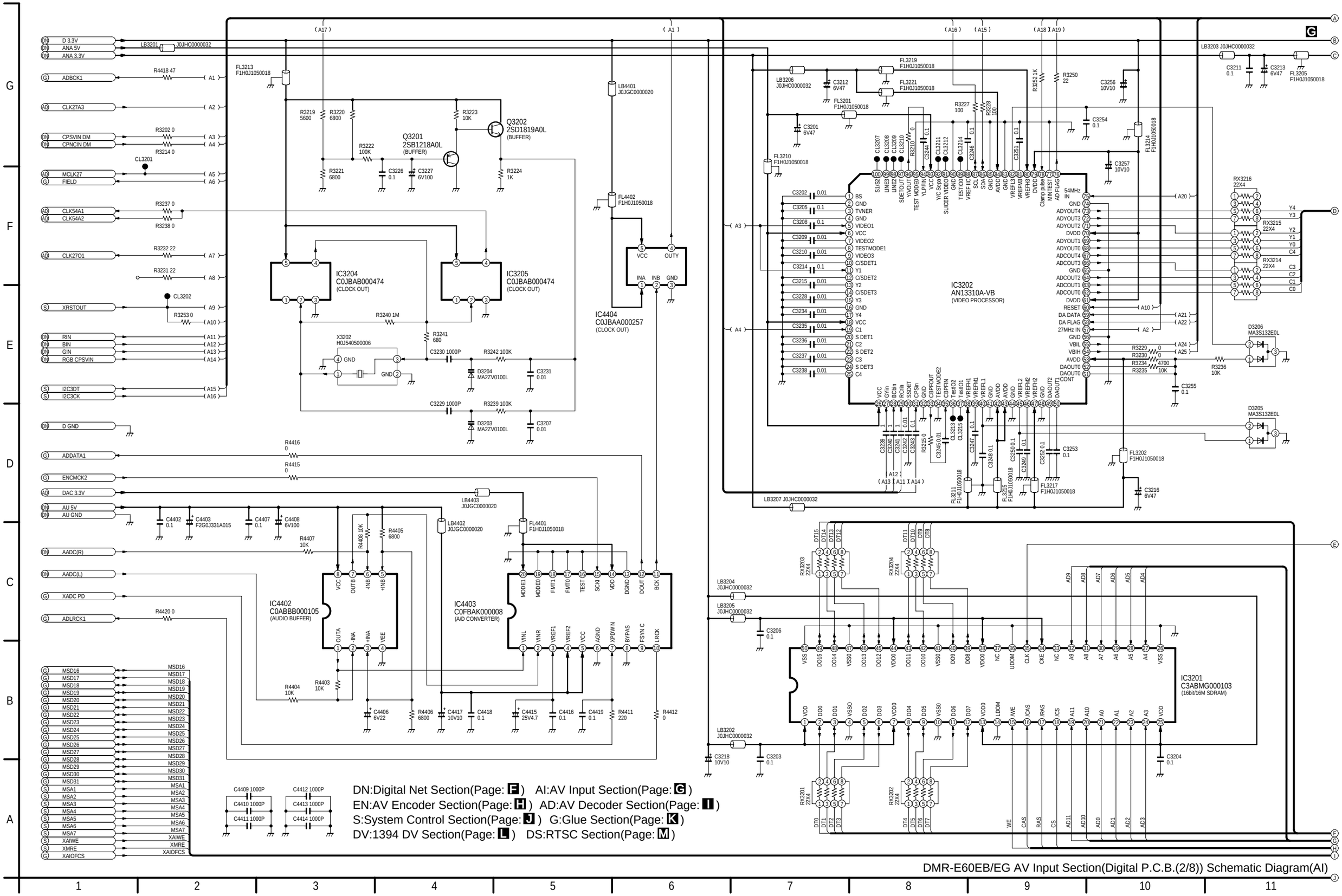
DN:Digital Net Section(Page: F) AI:AV Input Section(Page: G) EN:AV Encoder Section(Page: H) AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J) G:Glue Section(Page: K) DV:1394 DV Section(Page: L) DS:RTSC Section(Page: M)



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

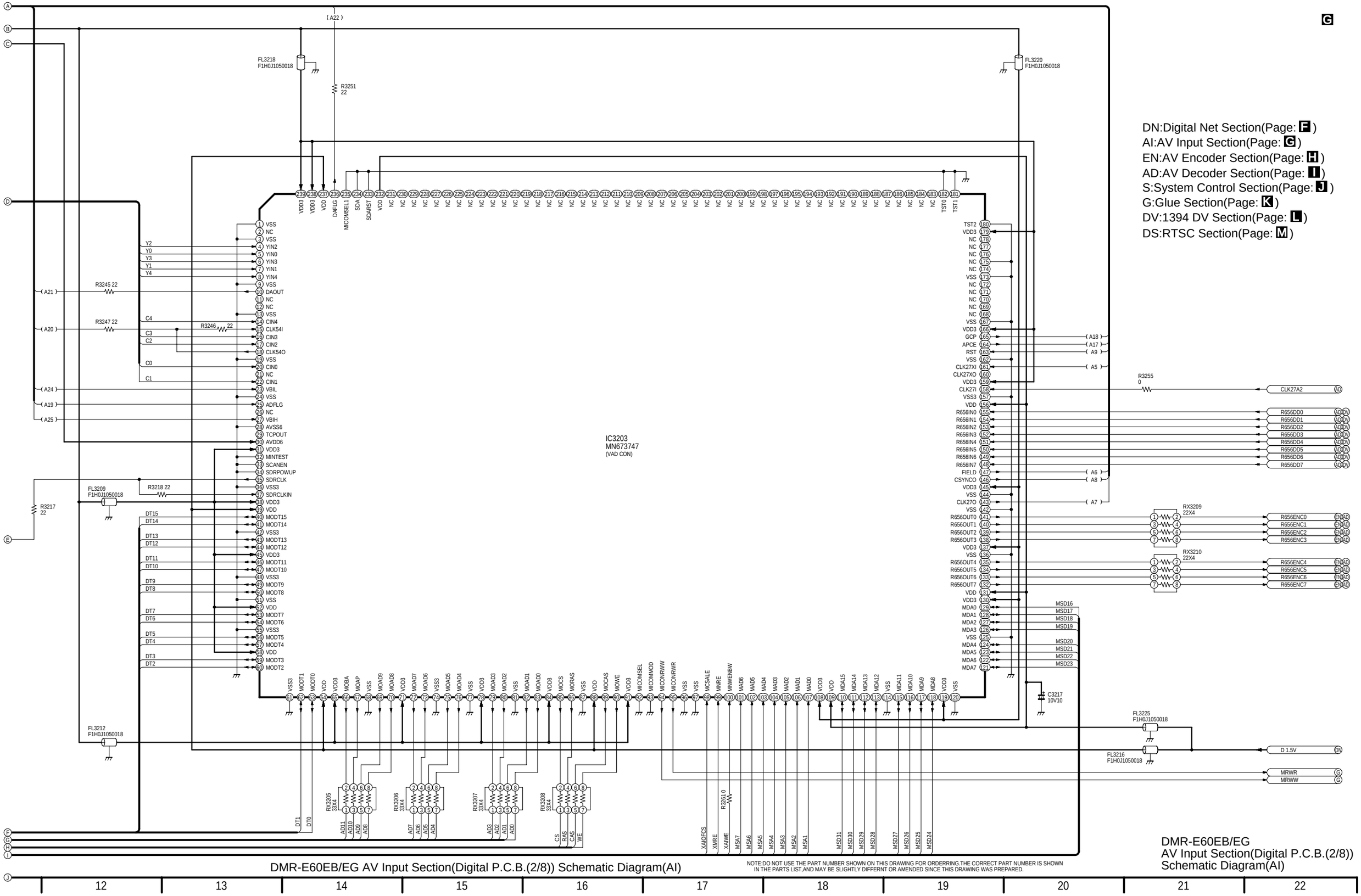
REF.NO.50000 SERIES

DMR-E60EB/EG
AV Decoder Section(Digital P.C.B.(4/8)) Schematic Diagram(AD)



DN:Digital Net Section(Page: F) AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H) AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J) G:Glue Section(Page: K)
DV:1394 DV Section(Page: L) DS:RTSC Section(Page: M)

DMR-E60EB/EG AV Input Section(Digital P.C.B.(2/8)) Schematic Diagram(AI)


IC3203
MN673747
(VAD CON)
FL3218
F1H0J1050018
FL3220
F1H0J1050018
FL3209
F1H0J1050018
FL3212
F1H0J1050018
FL3225
F1H0J1050018
FL3216
F1H0J1050018
R3251 22
R3218 22
R3217 22
R3245 22
R3247 22
R3246 22
R3255 0
RX3209 22X4
RX3210 22X4
RX3205 33X4
RX3206 33X4
RX3207 33X4
RX3208 33X4
R32610
C3217 10V10
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
DMR-E60EB/EG
AV Input Section(Digital P.C.B.(2/8))
Schematic Diagram(AI)
DMR-E60EB/EG AV Input Section(Digital P.C.B.(2/8)) Schematic Diagram(AI)
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

FRONT(L)P.C.B.

S7003 POWER — KEY IN2(L) — P7001 3 / P7501 3 — KEY IN2(L) → IC7502 (TIMER) 97 KEY IN2

KEY IN2(R) — P7001 4 / P7501 4

N SW+5V — POWER — D7001 — QR7001 (POWER LED DRIVE) — POW LED H — P7001 9 / P7501 9 — POWER LED H → 90 POWER LED H

IR7001 REMOTE CTL. RECEIVER (3 2 1)

N SW+5V — P7001 1 / P7501 1 — REMOTE CTL. → 3 REMOTE CTL.

KEY IN3(L) — P7001 5 / P7501 5 — KEY IN3 → 104 KEY IN3

KEY IN3(R) — P7001 6 / P7501 6

S7814 EXT-LINK — S7813 TIMER-REC — S7812 PLAY — S7811 TIME-WARP — S7810 ERASE — S7809 MODE — S7808 CH-UP

KEY IN2(R) — P7801 7 / PS103 7 / PS102 8 / PP1503 8

S7805 STOP — S7804 SKIP-R — S7803 CH-DOWN — S7802 REC

KEY IN3(R) — P7801 8 / PS103 8 / PS102 6 / PP1503 6

TRAY S7801 — BLIND OPEN H — P7801 5 / PS103 5 / PS102 11 / PP1503 11 — TO DIGITAL P.C.B. (GLUE SEC.IC6701-148)

SKIP-F S7815 — OPEN/CLOSE S7816 — KEY IN1(R) — P7801 6 / PS103 6 / PS102 10 / PP1503 10 — KEY IN1 → 96 KEY IN1

TIME-WARP — X SW5.15V — D7801 — QR7801 (TIME-WARP LED DRIVE) — TIME-WARP LED H — P7801 4 / PS103 4 / PS102 12 / PP1503 12 — TIME-WARP LED H → 76

IC7508 (RESET) — X SW 5.15V → 5 — 4 → 11 RESET L

FRONT(R)P.C.B.

IP7501 IC PROTECTOR (1 2) — T7501 DISPLAY REGULATOR (4 1 5) — DP7501 DISPLAY (F+ F- 1G 2G)

IC7501 (DISPLAY DRIVE)

FIPTLK 42 — S DATA 16
FIPCLK 44 — SCK 15

SEQ00 59 ~ SEQ26 33
SEQ27 31 ~ SEQ32 26
DEG00 12 ~ DEG05 7
DIG07 5
DIG06 6

Q7501 (DISPLAY DRIVE)
Q7502 (DISPLAY DRIVE)

X SW13V

IC7507 (FAN MOTOR DRIVE) — FAN DC OUT 2 → 5 B+IN — A OUT 1 → Q7515 (FAN MOTOR DRIVE) — FANDCOUT — P7504 1 / P7504 3 — FAN MOTOR (M) — FAN LOCK H 64

N SW+5V

AUDIO MUTE L 20 — XT MUTE → (QR4002-QR4005,Q4004)
SCART MUTE L 57 — XSCART MUTE → (QR4012)
RFC A MUTE H 52 — RFC A MUTE H → (QR7406,QR7407)
DC L CH 101 — METER(L) → (IC4001-17)
DC R CH 102 — METER(R) → (IC4001-18)

TO/FROM ANALOG AUDIO

SYNC IN 109 — Q7507 VIDEO SYNC OUT — SLICER VIDEO → (IC3001-42)
CVIN1 113 — Q7505 AMP
THROUT L 50 — QR7501 INV. — AV2 THROUGH H → (IC3004-9,10,11)
YC H 51 — YC H → (IC3002-9,10,11)

TO/FROM ANALOG VIDEO

POWER SAVE L 56 — POWER SAVE L
POWER ON H 88 — POWER ON H
TUNER P ON H 89 — TUNER P ON H

TO POWER SUPPLY

IIC CLK 28 — IIC CLK — PK7702 1 / PK7302 1 — SCL 29
IIC DATA 29 — IIC DATA — PK7702 2 / PK7302 2 — SDA 30

IC7301 (DECODER PACK)

IC3901 (SCART) — PP7401 2 / PS3901 2 — SDA 21 — PP7401 1 / PS3901 1 — SCL 22

XCIN 9 — X7502 32.768MHz — XCOUT 10

XOUT 12 — X7503 10MHz — XIN 14

IC7506 (EEPROM) — SCL 6 / SDA 5

IC4001 (AUDIO PROCESS) — SDA 21 / SCL 20

IC3001 (VIDEO PROCESS) — SCL 30 / SDA 31

DU7402 VIF TUNER — SCL 11 / SDA 12

DMR-E60EB/EG
Timer Block Diagram

MAIN P.C.B.

MAIN P.C.B.

AV4
JK3001
REAR JACK

SCART P.C.B.

:REC SIGNAL
:PB SIGNAL

FROM DIGITAL P.C.B.

PS9001 PP9701 20 20 — Y OUT DM — FL3004 — Q3008 AMP

PS9001 PP9701 22 22 — C OUT DM — FL3003 — Q3007 AMP

IC3003
(VIDEO BUFFER)
Y — 6M LPF
C — 1.5-6M BPF
MIX
6dB 750hm
Y OUT
C OUT
V OUT

CPN Y OUT
CPN C OUT
CPS V OUT

S-VIDEO
CPN OUT
V OUT

(E60EB Only)
DU7402
TUNER PACK
VIDEO IN
RFC V OUT

FROM TIMER IC7502- 51 — YC H
AV2 THROUGH L — FROM TIMER IC7502- 50

IC3002
(SELECTOR SW.)
C IN
R IN
H
L

IC3004
(SELECTOR SW.)
R/C OUT
B OUT
G/Y OUT
R/C IN
G IN
B IN

PS9001 PP9701 18 18 — RPROUT DM — FL3006 — Q3010 AMP — RPROUT DM

PS9001 PP9701 16 16 — BPBOUT DM — FL3007 — Q3011 AMP — BPBOUT DM

PS9001 PP9701 15 15 — GPYOUT DM — FL3005 — Q3009 AMP — GPYOUT DM

R/C OUT
B OUT
G OUT

PP7401 PS3901 20 20 — R/C OUT
PP7401 PS3901 18 18 — B OUT
PP7401 PS3901 16 16 — G OUT
PP7401 PS3901 12 12
PP7401 PS3901 10 10

CPS V OUT
CPN Y OUT

IC3902
(RGB BUFFER)
6dB 750hm

RED/C OUT
BLUE OUT
GREEN OUT
VIDEO/Y OUT
VIDEO IN

AV1
JK3905
TV

R/C IN
G IN
B IN

PP7402 PS3902 3 3
PP7402 PS3902 5 5
PP7402 PS3902 7 7

RED/C IN
GREEN IN
BLUE IN
VIDEO OUT
VIDEO/Y IN

AV2
JK3904
DECODER/
EXT

AV3
JK7001
FRONT JACK
S-VIDEO IN
VIDEO IN

IC3001
(VIDEO PROCESS)

P7001 P7501 20 20 — CPN 2Y IN — Y3 IN
P7001 P7501 18 18 — CPN 2C IN — C3 IN
P7001 P7501 16 16 — CPS 2V IN — VIDEO 3 IN

C1 IN

Q7406 AMP — PP9701 PS9001 13 13
Q7405 AMP — PP9701 PS9001 11 11
Q7404 AMP — PP9701 PS9001 9 9
TO DIGITAL P.C.B.

TO DIGITAL P.C.B.
PS9001 PP9701 28 28 — V YIN DM — Q3012 AMP — YGCAOUT
PS9001 PP9701 30 30 — CPN CIN DM — Q3013 AMP — CGCAOUT

AV4
JK3001
REAR JACK
S-VIDEO IN
VIDEO IN

Y4 IN
C4 IN
VIDEO 4 IN

Y1 IN — Q3014 AMP
VIDEO1 IN — Q3005 AMP
SLICER VIDEO — SLICER VIDEO — TO TIMER (Q750S,Q7507)

SCART VIN

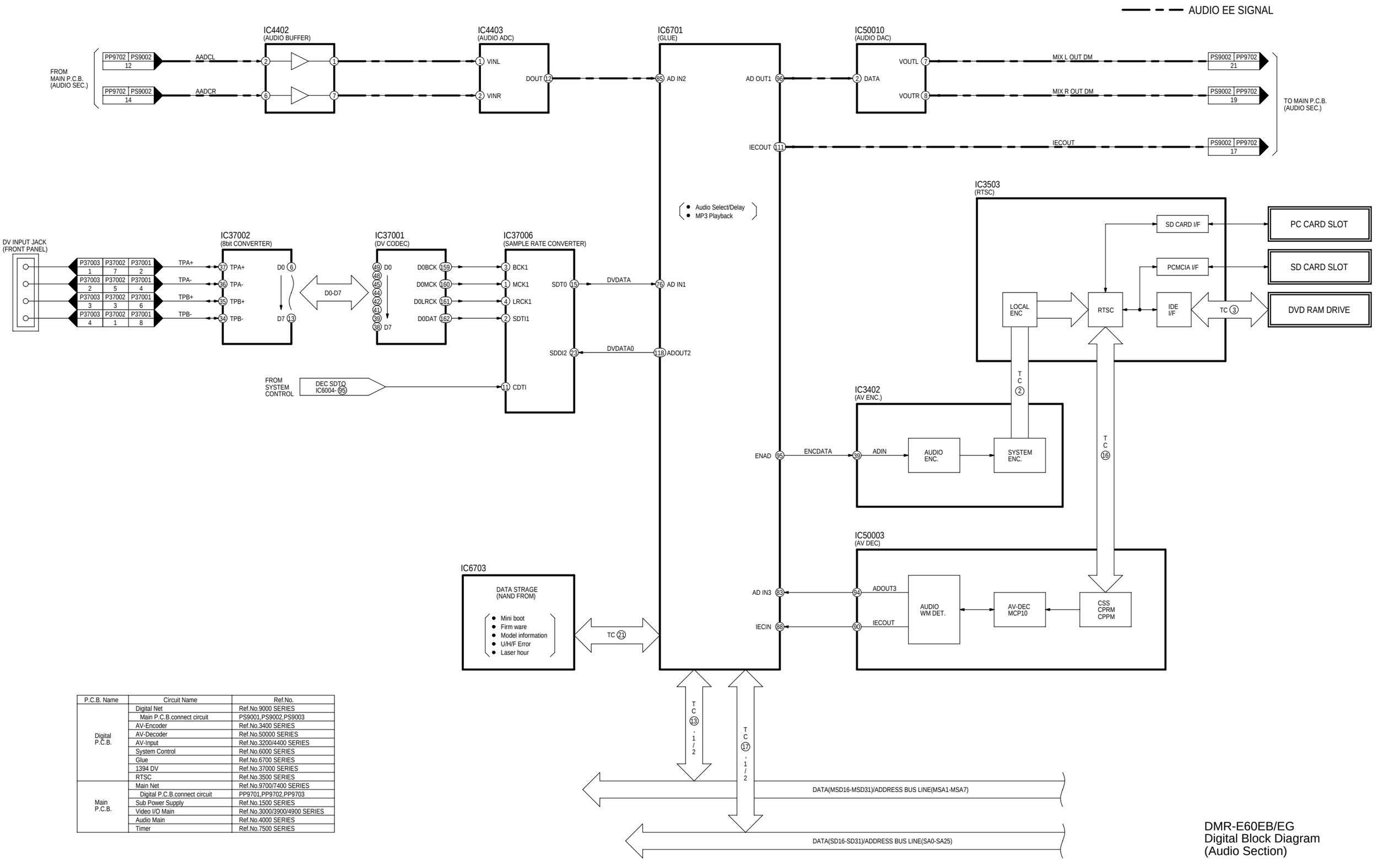
PP7401 PS3901 8 8
PP7401 PS3901 6 6

IC3901
(A/V BUFFER AND SWITCH)
VIDEO OUT(AV1)
VIDEO IN(AV1)
VIDEO OUT(AV2)
CPN Y
CPS V
VIDEO IN(AV2)
SCART V OUT
TUNER VIDEO

Q3901 AMP

DU7402
VIDEO OUT 24 — TUNER VIDEO — Q7402 AMP

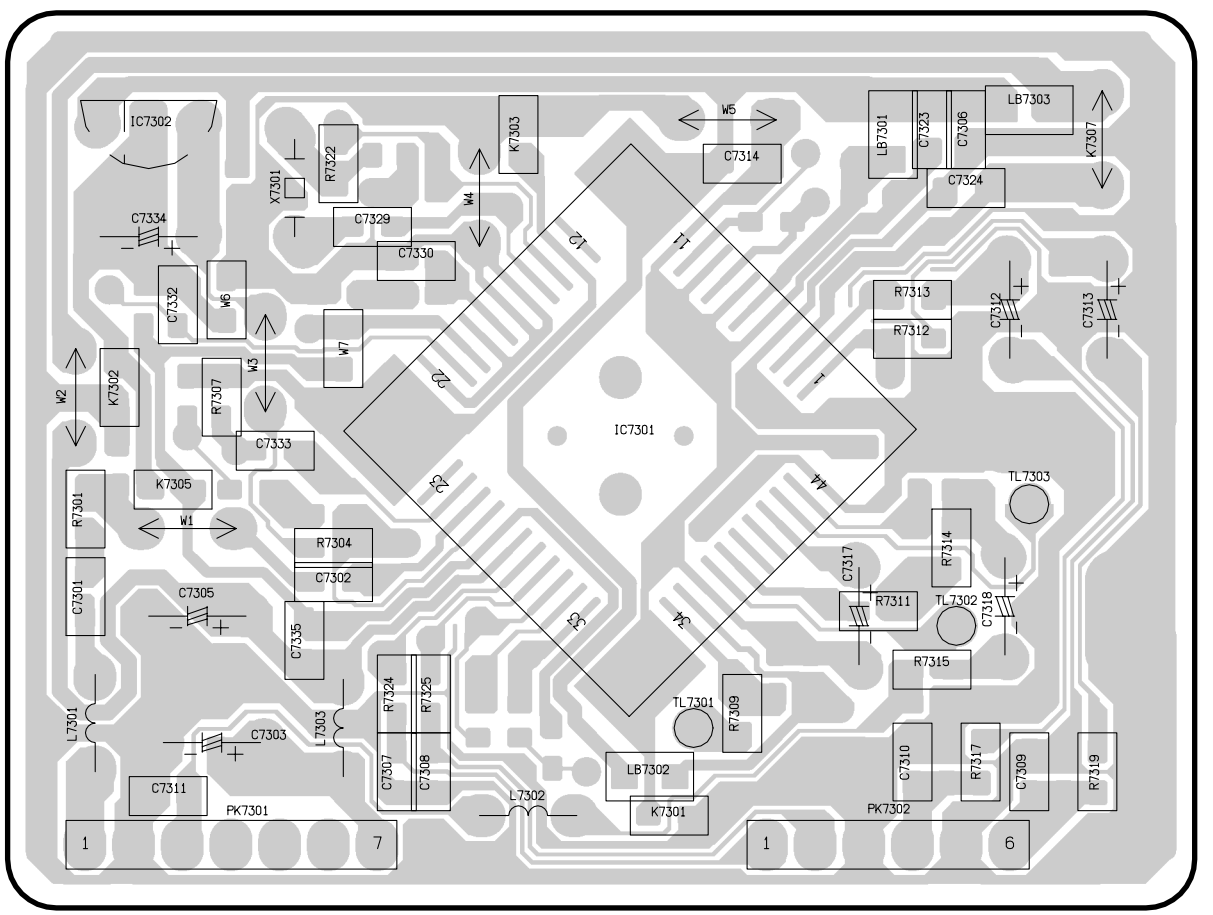
DMR-E60EB/EG
Analog Video Block Diagram



P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES
Main P.C.B.	Main Net	Ref.No.9700/7400 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O Main	Ref.No.3000/3900/4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

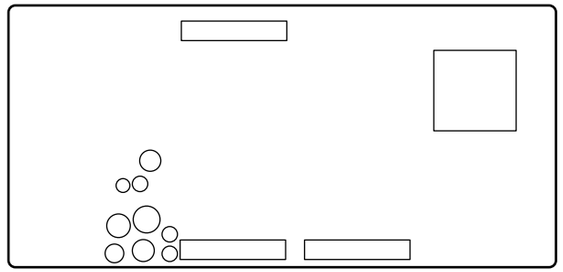
DMR-E60EB/EG
Digital Block Diagram
(Audio Section)

Nicam/Decoder P.C.B.

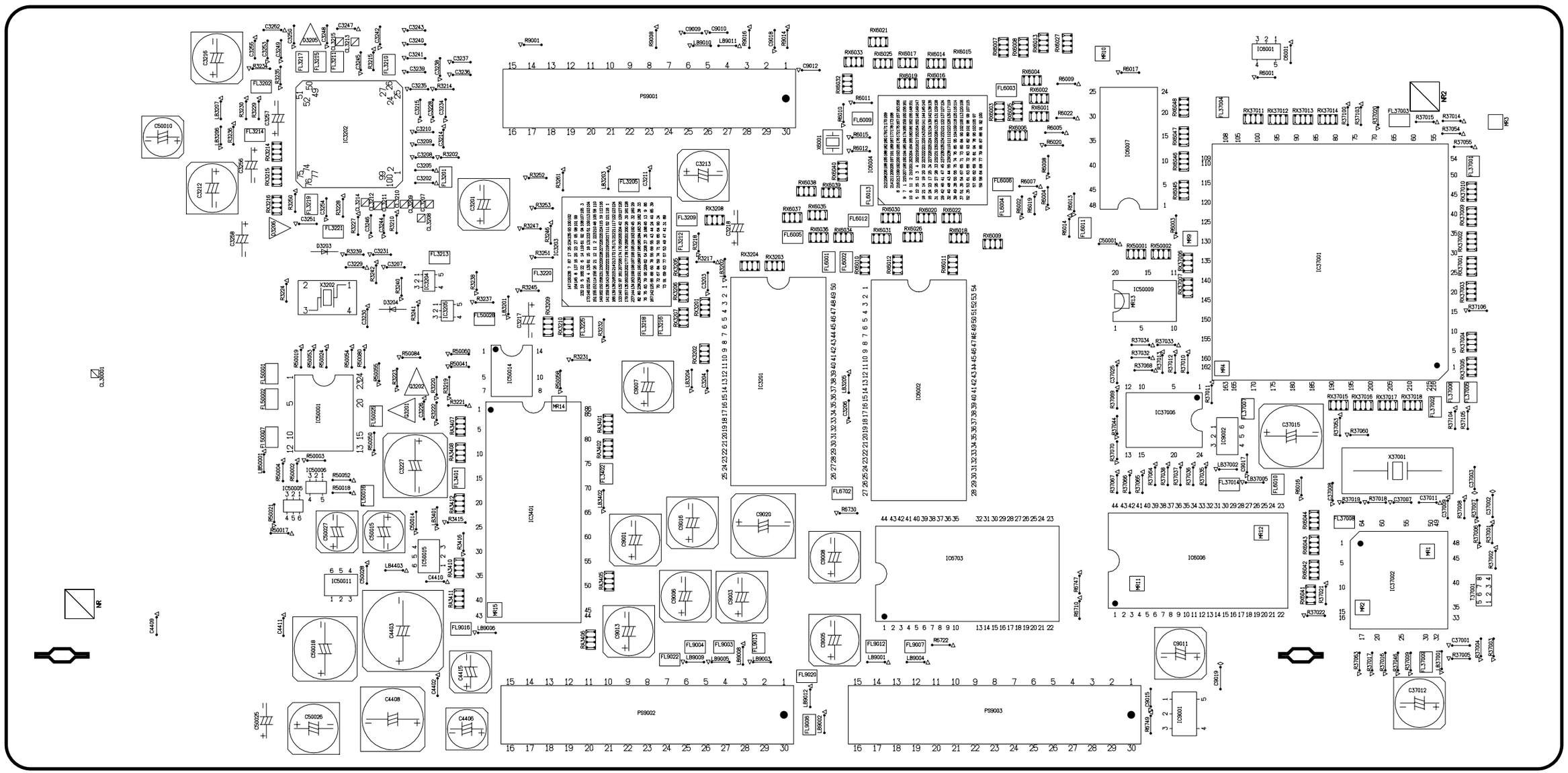


DMR-60EB/EG
Nicam/Decoder P.C.B. (VEP07A51A)

OVER VIEW



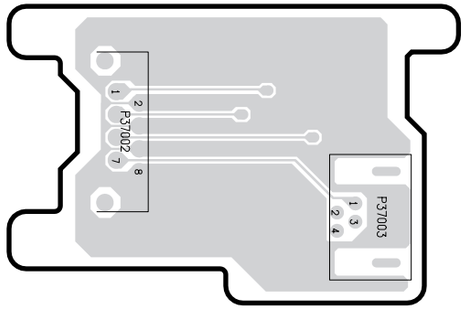
DIGITAL P.C.B. (1/2)



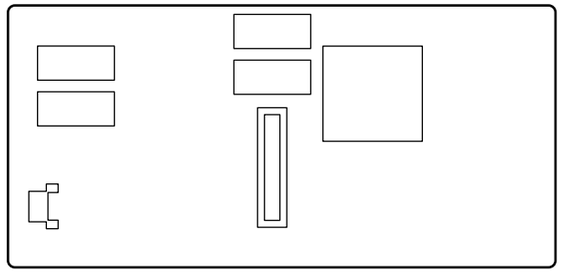
(COMPONENT SIDE)

DMR-E60EB/EG
DIGITAL P.C.B. (1/2)
(E60EB:REP3584AB/E60EG:REP3584A)

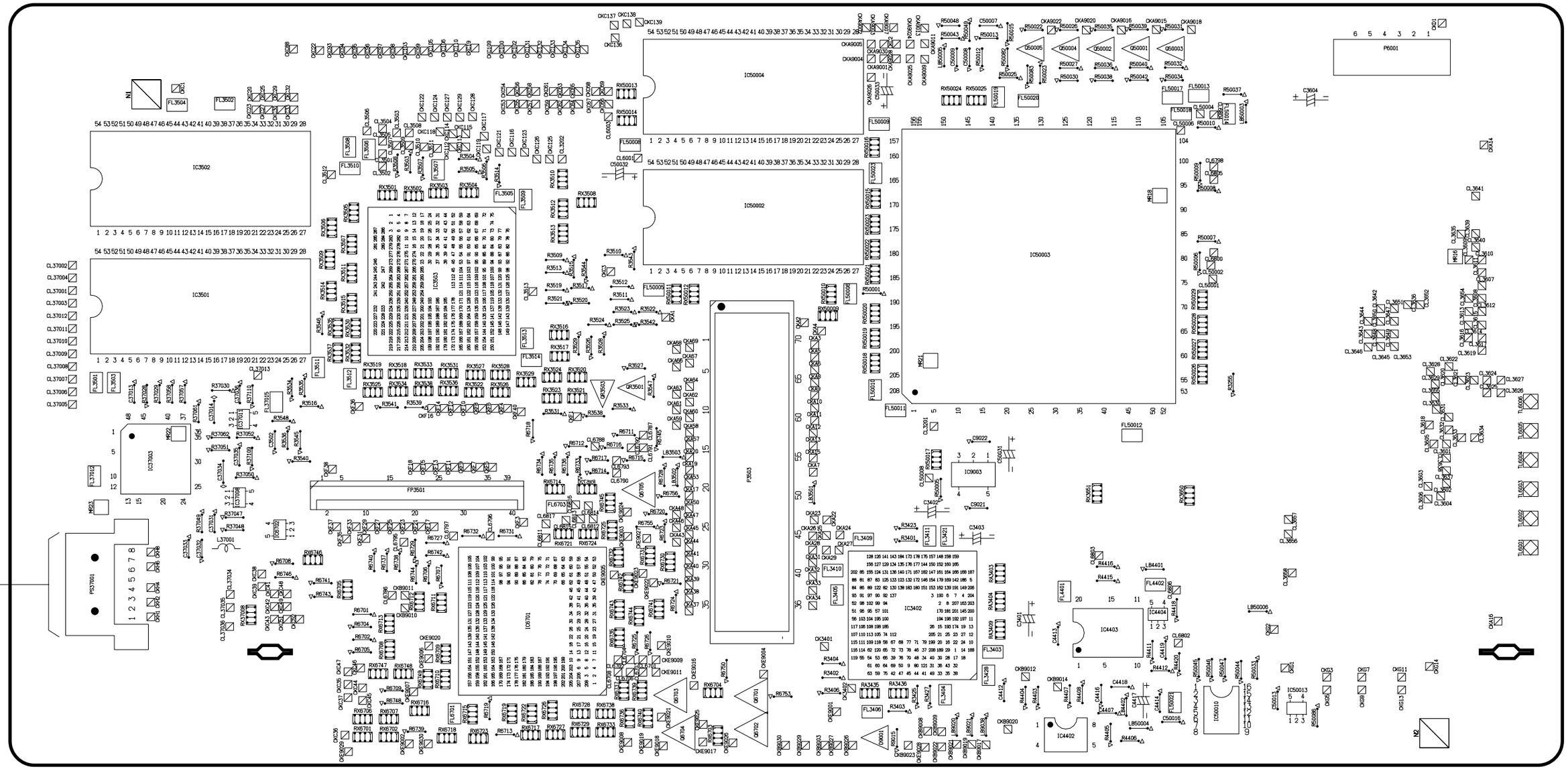
DV JACK P.C.B.



OVER VIEW



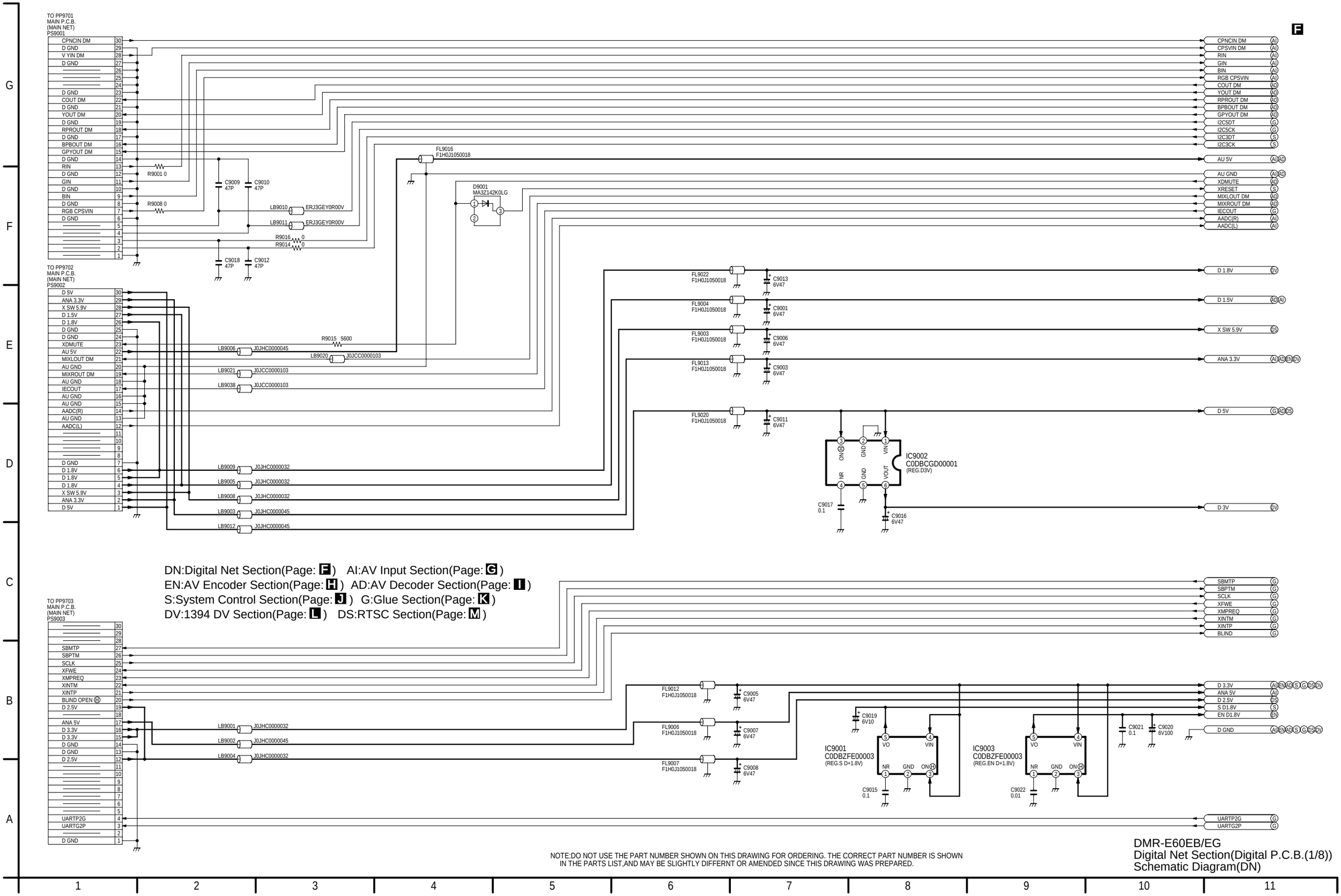
DIGITAL P.C.B. (2/2)



(FOIL SIDE)

DMR-E60EB/EG
DV JACK P.C.B. (REP3540AB)
DIGITAL P.C.B. (2/2) (E60EB:REP3584AB/ E60EG:REP3584A)

| | | |


TO PP9701
MAIN P.C.B.
(MAIN NET)
PS9001
CPNCIN DM 30
D GND 29
V YIN DM 28
D GND 27
D GND 23
COUT DM 22
D GND 21
YOUT DM 20
D GND 19
RPROUT DM 18
D GND 17
BPBOUT DM 16
GPYOUT DM 15
D GND 14
RIN 13
D GND 12
GIN 11
D GND 10
BIN 9
D GND 8
RGB CPSVIN 7
D GND 6
R9001 0
R9008 0
C9009 47P
C9010 47P
C9018 47P
C9012 47P
LB9010 ERJ3GEY0R00V
LB9011 ERJ3GEY0R00V
R9016 0
R9014 0
FL9016 F1H0J1050018
D9001 MA3Z142K0LG
CPNCIN DM AI
CPSVIN DM AI
RIN AI
GIN AI
BIN AI
RGB CPSVIN AI
COUT DM AD
YOUT DM AD
RPROUT DM AD
BPBOUT DM AD
GPYOUT DM AD
I2C5DT G
I2C5CK G
I2C3DT S
I2C3CK S
AU 5V AI AD
AU GND AI AD
XDMUTE AD
XRESET S
MIXLOUT DM AD
MIXROUT DM AD
IECOUT G
AADC(R) AI
AADC(L) AI
TO PP9702
MAIN P.C.B.
(MAIN NET)
PS9002
D 5V 30
ANA 3.3V 29
X SW 5.9V 28
D 1.5V 27
D 1.8V 26
D GND 25
D GND 24
XDMUTE 23
AU 5V 22
MIXLOUT DM 21
AU GND 20
MIXROUT DM 19
AU GND 18
IECOUT 17
AU GND 16
AU GND 15
AADC(R) 14
AU GND 13
AADC(L) 12
D GND 7
D 1.8V 6
D 1.8V 5
D 1.8V 4
X SW 5.9V 3
ANA 3.3V 2
D 5V 1
R9015 5600
LB9006 J0JHC0000045
LB9020 J0JCC0000103
LB9021 J0JCC0000103
LB9038 J0JCC0000103
LB9009 J0JHC0000032
LB9005 J0JHC0000032
LB9008 J0JHC0000032
LB9003 J0JHC0000045
LB9012 J0JHC0000045
FL9022 F1H0J1050018
FL9004 F1H0J1050018
FL9003 F1H0J1050018
FL9013 F1H0J1050018
FL9020 F1H0J1050018
C9013 6V47
C9001 6V47
C9006 6V47
C9003 6V47
C9011 6V47
D 1.8V DV
D 1.5V AD AI
X SW 5.9V DS
ANA 3.3V AI AD EN DV
D 5V G AD DS
IC9002
C0DBCGD00001
(REG.D3V)
ON/OFF GND VIN
NR GND VOUT
C9017 0.1
C9016 6V47
D 3V DV
DN:Digital Net Section(Page: F) AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H) AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J) G:Glue Section(Page: K)
DV:1394 DV Section(Page: L) DS:RTSC Section(Page: M)
TO PP9703
MAIN P.C.B.
(MAIN NET)
PS9003
SBMTP 27
SBPTM 26
SCLK 25
XFWE 24
XMPREQ 23
XINTM 22
XINTP 21
BLIND OPEN H 20
D 2.5V 19
ANA 5V 17
D 3.3V 16
D 3.3V 15
D GND 14
D GND 13
D 2.5V 12
UARTP2G 4
UARTG2P 3
D GND 1
LB9001 J0JHC0000032
LB9002 J0JHC0000045
LB9004 J0JHC0000032
FL9012 F1H0J1050018
FL9006 F1H0J1050018
FL9007 F1H0J1050018
C9005 6V47
C9007 6V47
C9008 6V47
C9019 6V10
C9015 0.1
IC9001
C0DBZFE00003
(REG.S D+1.8V)
VO VIN
NR GND ON/OFF
IC9003
C0DBZFE00003
(REG.EN D+1.8V)
C9022 0.01
C9021 0.1
C9020 6V100
SBMTP G
SBPTM G
SCLK G
XFWE G
XMPREQ G
XINTM G
XINTP G
BLIND G
D 3.3V AI EN AD S G DS DV
ANA 5V AI
D 2.5V DS
S D1.8V S
EN D1.8V EN
D GND AI EN AD S G DS DV
UARTP2G G
UARTG2P G
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E60EB/EG
Digital Net Section(Digital P.C.B.(1/8))
Schematic Diagram(DN)

IC3501
C3ABQG000043
(16bit/128M SDRAM)

IC3502
C3ABQG000043
(16bit/128M SDRAM)

FL3503 F1H0J1050018
FL3501 F1H0J1050018
FL3504 F1H0J1050018
FL3502 F1H0J1050018

RX3503 22X4
RX3504 22X4
R3504 33
R3505 33
R3506 33
RX3508 33X4
RX3510 33X4
RX3512 33X4
RX3513 33X4
R3514 33
R3517 33
RX3515 33X4
RX3514 33X4
RX3511 33X4
RX3509 33X4
RX3507 22X4
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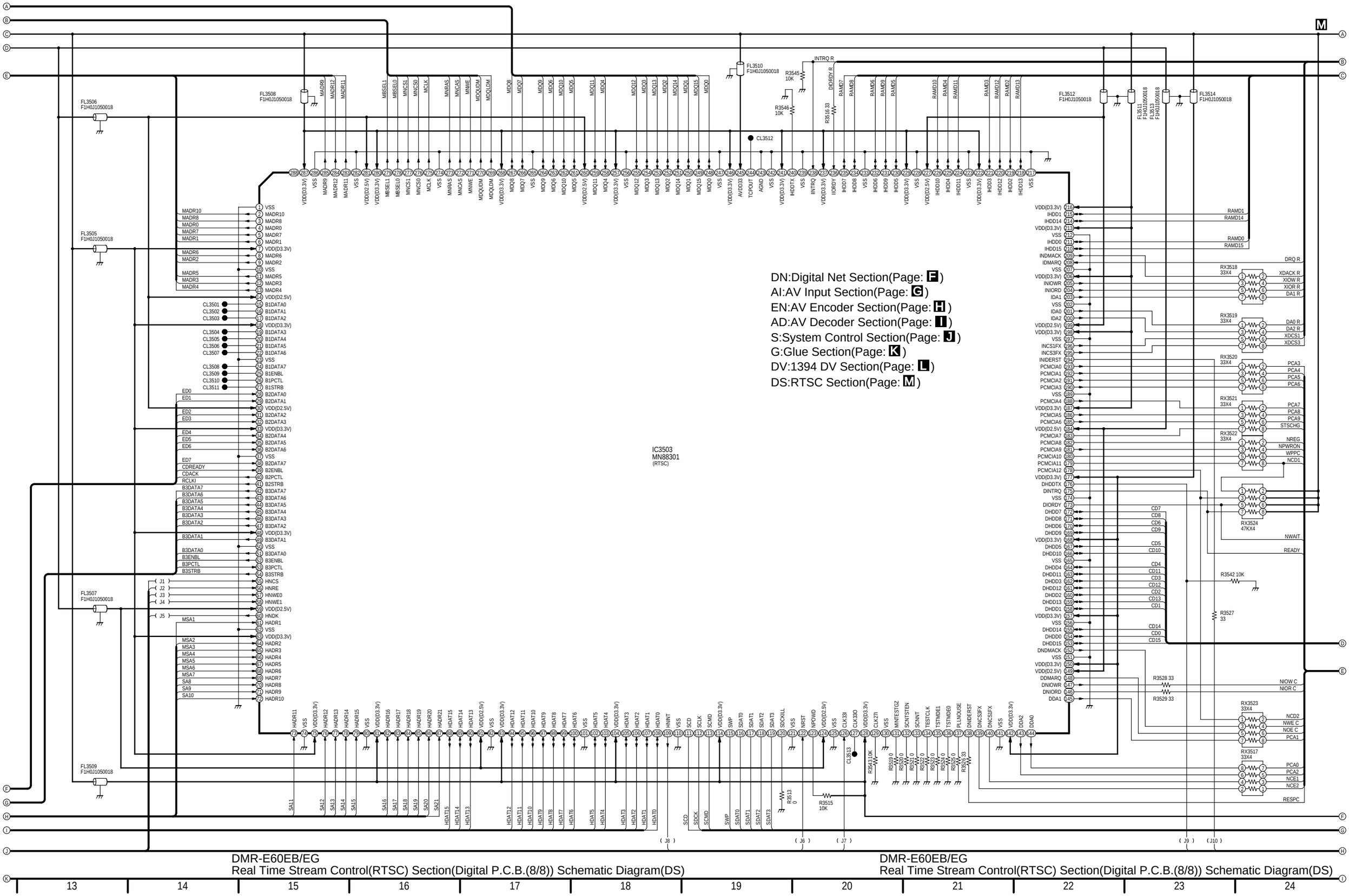
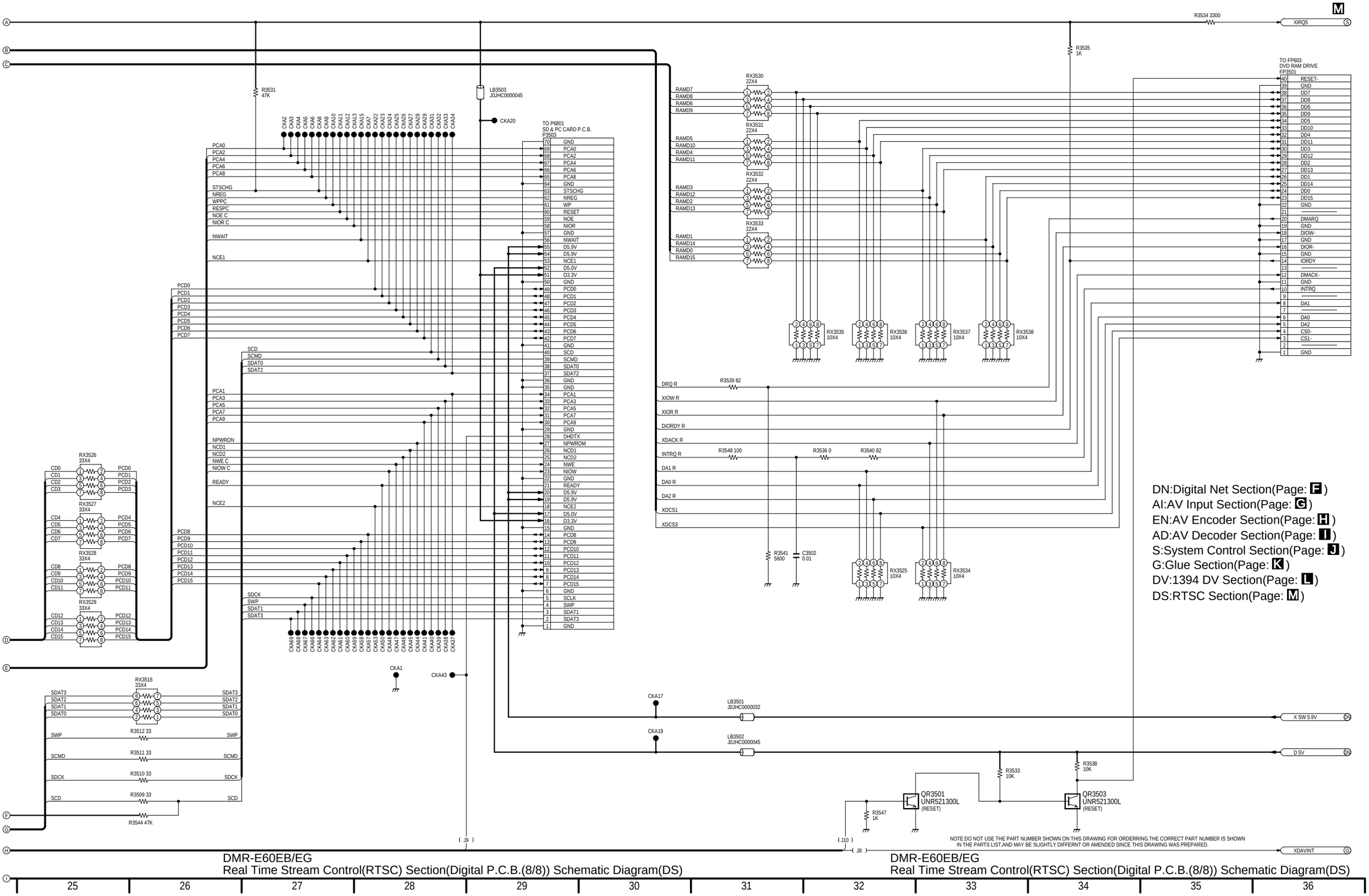
R3507 22
R3508 22
RX3505 22X4
RX3501 22X4
RX3502 22X4
R3503 22



DMR-E60EB/EG
Real Time Stream Control(RTSC) Section(Digital P.C.B.(8/8)) Schematic Diagram(DS)

DMR-E60EB/EG
Real Time Stream Control(RTSC) Section(Digital P.C.B.(8/8)) Schematic Diagram(DS)



DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

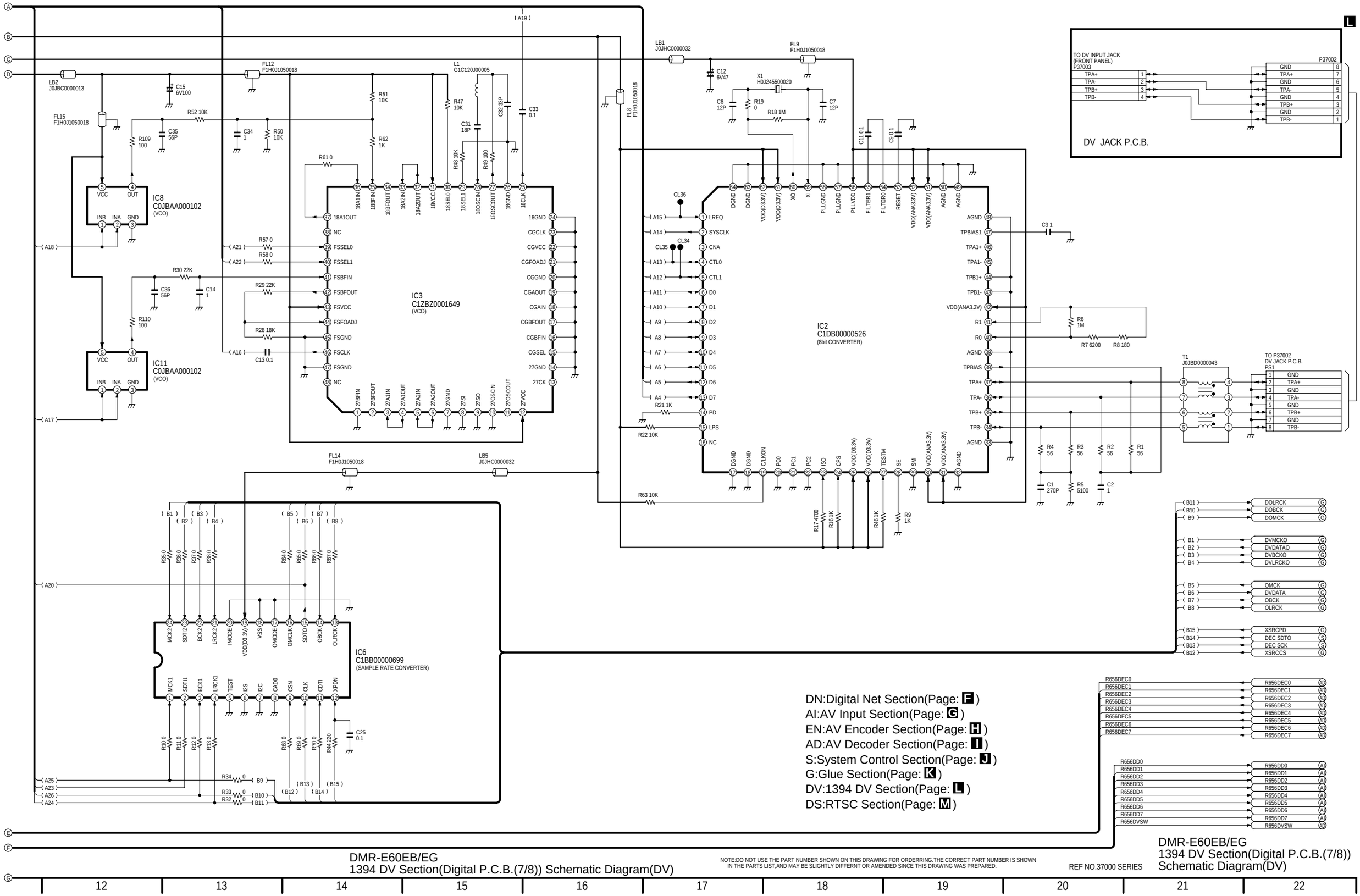
DMR-E60EB/EG
Real Time Stream Control(RTSC) Section(Digital P.C.B.(8/8)) Schematic Diagram(DS)

DMR-E60EB/EG
Real Time Stream Control(RTSC) Section(Digital P.C.B.(8/8)) Schematic Diagram(DS)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)

IC1
MN673745
(DV CODEC)

DMR-E60EB/EG
1394 DV Section(Digital P.C.B.(7/8)) Schematic Diagram(DV)

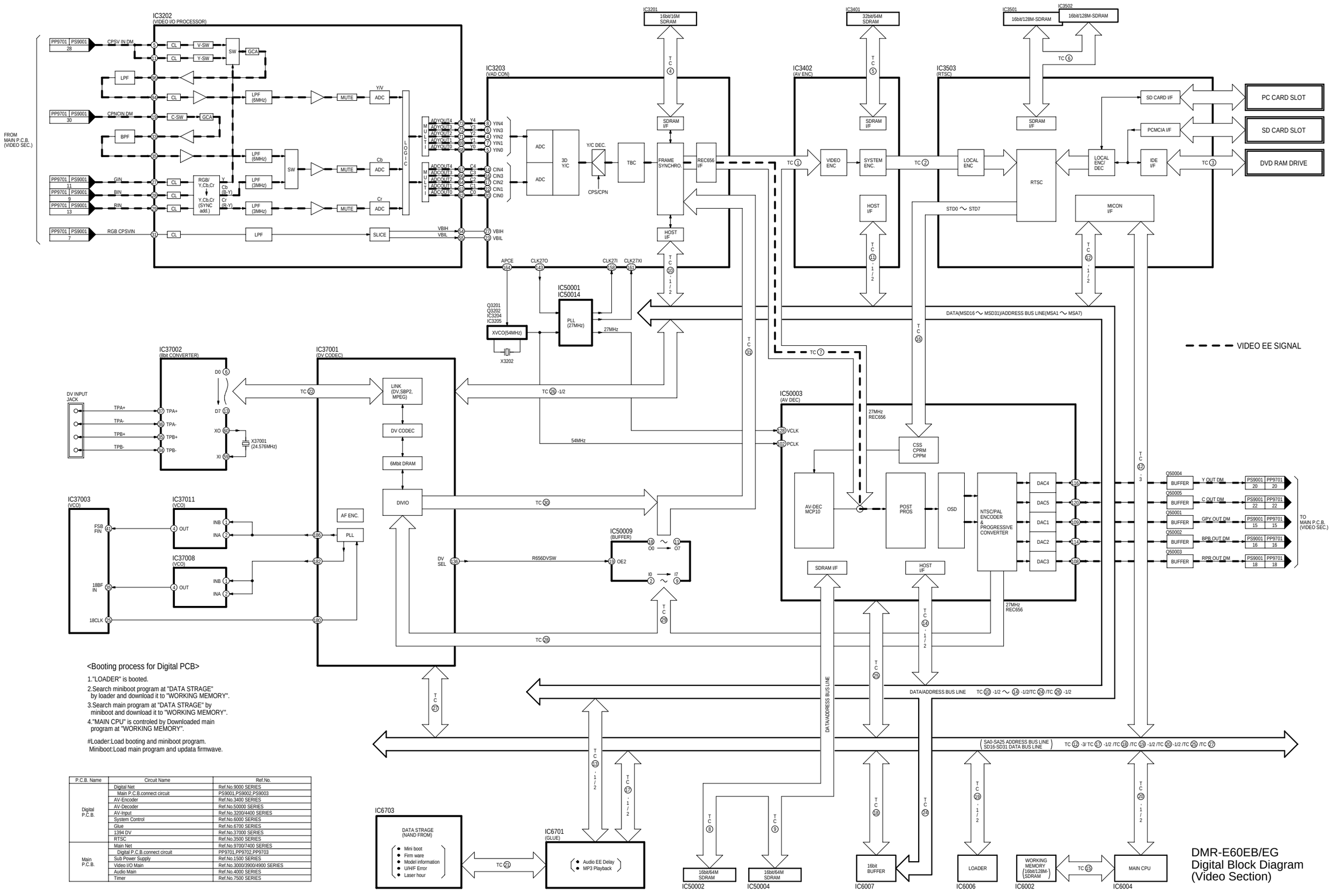


DMR-E60EB/EG
1394 DV Section(Digital P.C.B.(7/8)) Schematic Diagram(DV)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

REF NO.37000 SERIES

DMR-E60EB/EG
1394 DV Section(Digital P.C.B.(7/8)) Schematic Diagram(DV)



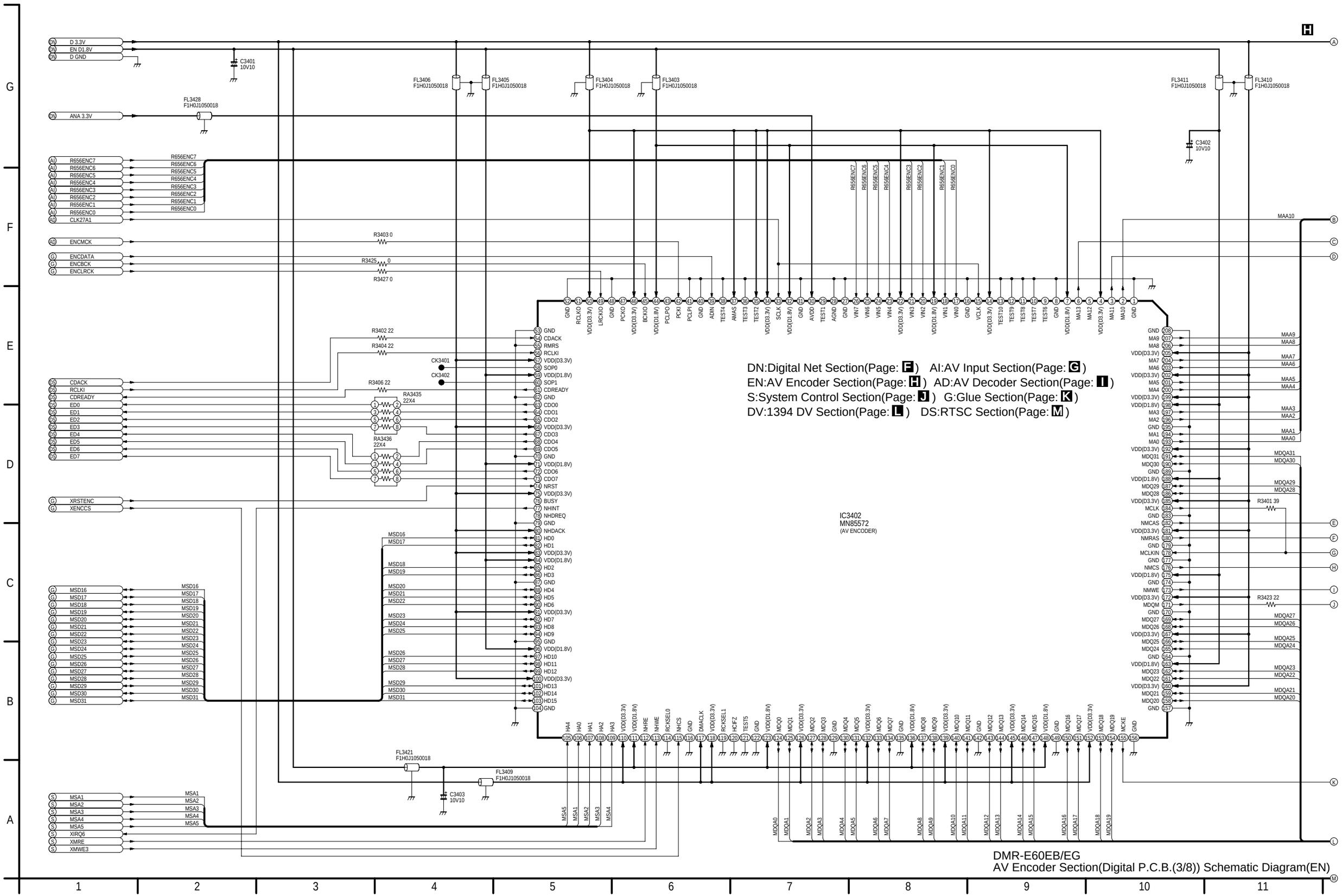
<Booting process for Digital PCB>

1."LOADER" is booted.
2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".
3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".
4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".

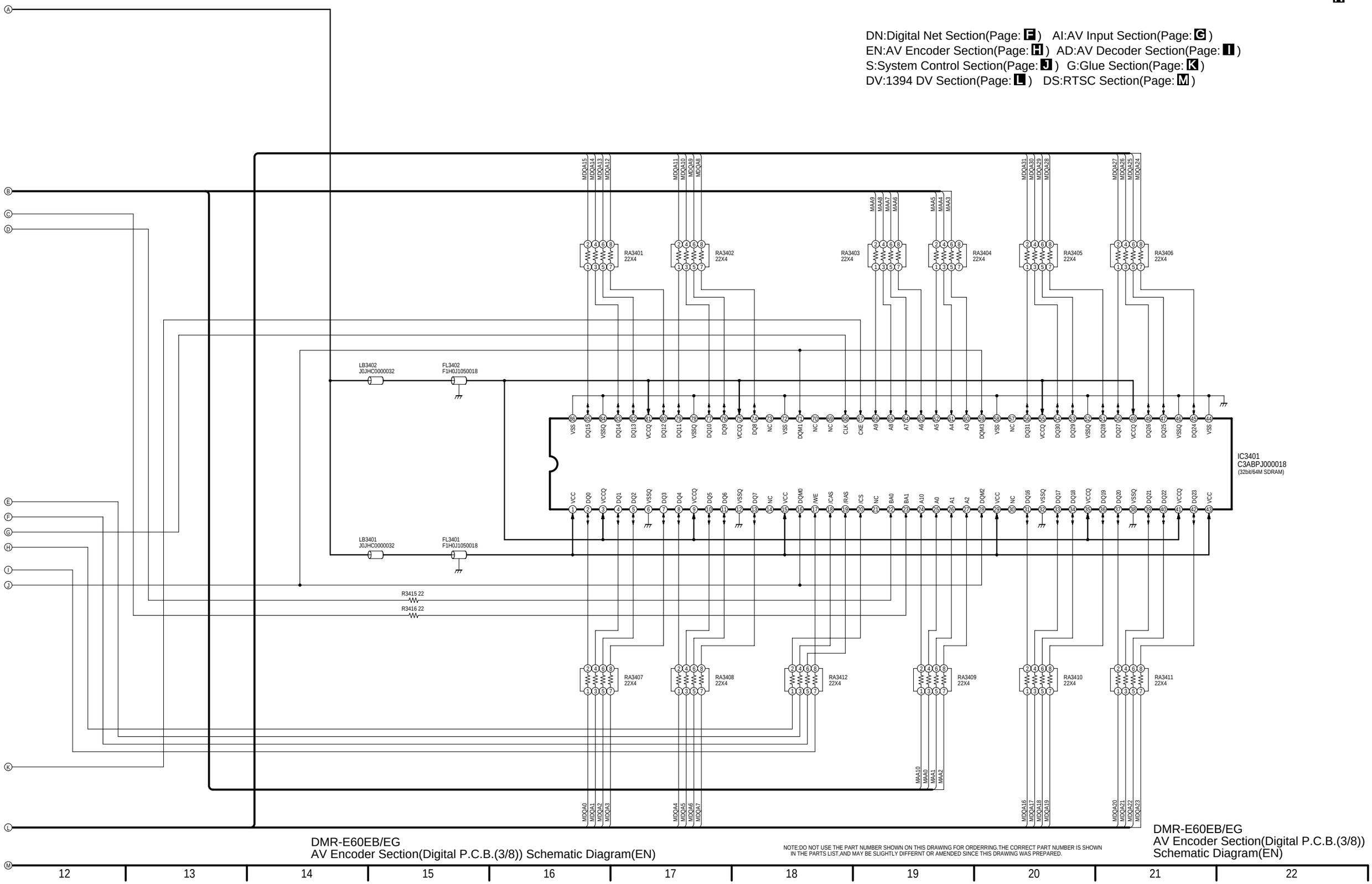
#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES
Main P.C.B.	Main Net	Ref.No.9700/7400 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O Main	Ref.No.3000/3900/4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

DMR-E60EB/EG Digital Block Diagram (Video Section)


H
DN D 3.3V
DN EN D1.8V
DN D GND
C3401 10V10
FL3428 F1H0J1050018
DN ANA 3.3V
FL3406 F1H0J1050018
FL3405 F1H0J1050018
FL3404 F1H0J1050018
FL3403 F1H0J1050018
FL3411 F1H0J1050018
FL3410 F1H0J1050018
C3402 10V10
AI R656ENC7
AI R656ENC6
AI R656ENC5
AI R656ENC4
AI R656ENC3
AI R656ENC2
AI R656ENC1
AI R656ENC0
AD CLK27A1
AD ENCMCK
G ENCDATA
G ENCBCK
G ENCLRCK
R3403 0
R3425 0
R3427 0
R3402 22
R3404 22
R3406 22
RA3435 22X4
RA3436 22X4
CK3401
CK3402
DS CDACK
DS RCLKI
DS CDREADY
DS ED0
DS ED1
DS ED2
DS ED3
DS ED4
DS ED5
DS ED6
DS ED7
G XRSTENC
G XENCCS
G MSD16
G MSD17
G MSD18
G MSD19
G MSD20
G MSD21
G MSD22
G MSD23
G MSD24
G MSD25
G MSD26
G MSD27
G MSD28
G MSD29
G MSD30
G MSD31
S MSA1
S MSA2
S MSA3
S MSA4
S MSA5
S XIRQ6
S XMRE
S XMWE3
FL3421 F1H0J1050018
FL3409 F1H0J1050018
C3403 10V10
IC3402
MN85572
(AV ENCODER)
MAA10
R3401 39
R3423 22
MAA9
MAA8
MAA7
MAA6
MAA5
MAA4
MAA3
MAA2
MAA1
MAA0
MDQA31
MDQA30
MDQA29
MDQA28
MDQA27
MDQA26
MDQA25
MDQA24
MDQA23
MDQA22
MDQA21
MDQA20
DN:Digital Net Section(Page: F) AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H) AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J) G:Glue Section(Page: K)
DV:1394 DV Section(Page: L) DS:RTSC Section(Page: M)
DMR-E60EB/EG
AV Encoder Section(Digital P.C.B.(3/8)) Schematic Diagram(EN)

DN:Digital Net Section(Page: F) AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H) AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J) G:Glue Section(Page: K)
DV:1394 DV Section(Page: L) DS:RTSC Section(Page: M)

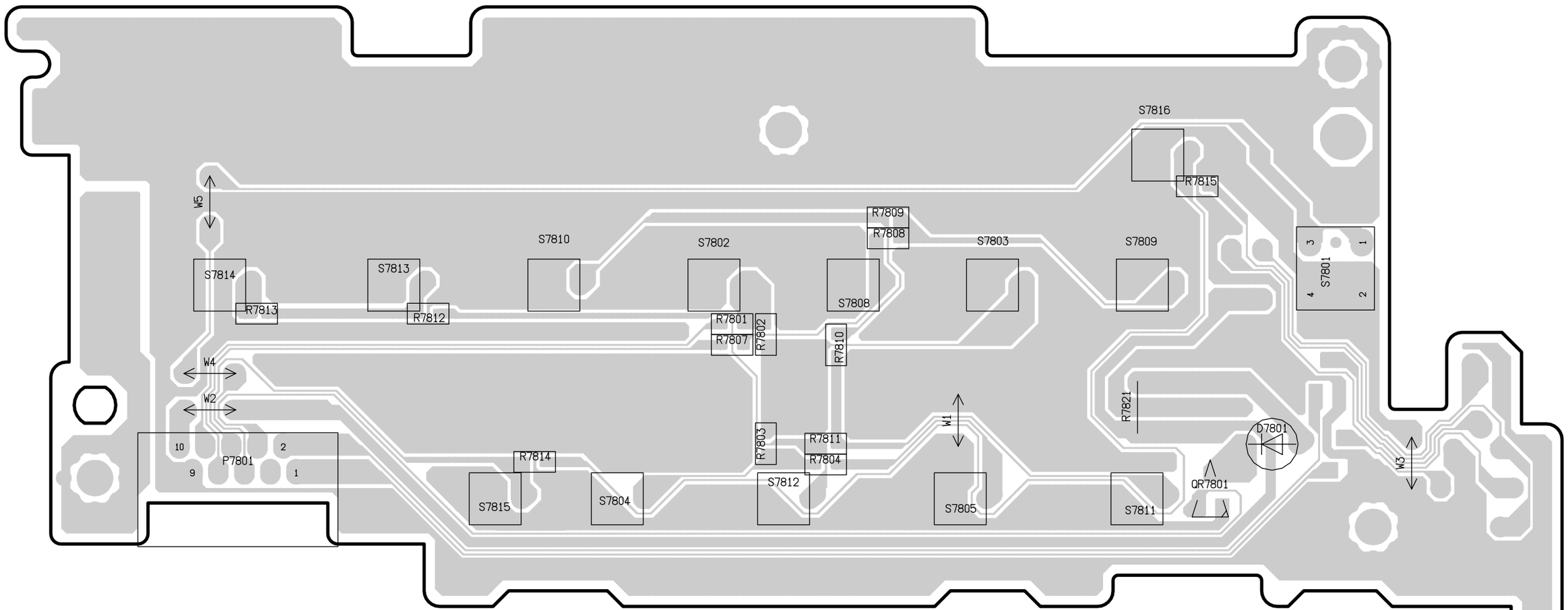


DMR-E60EB/EG
AV Encoder Section(Digital P.C.B.(3/8)) Schematic Diagram(EN)

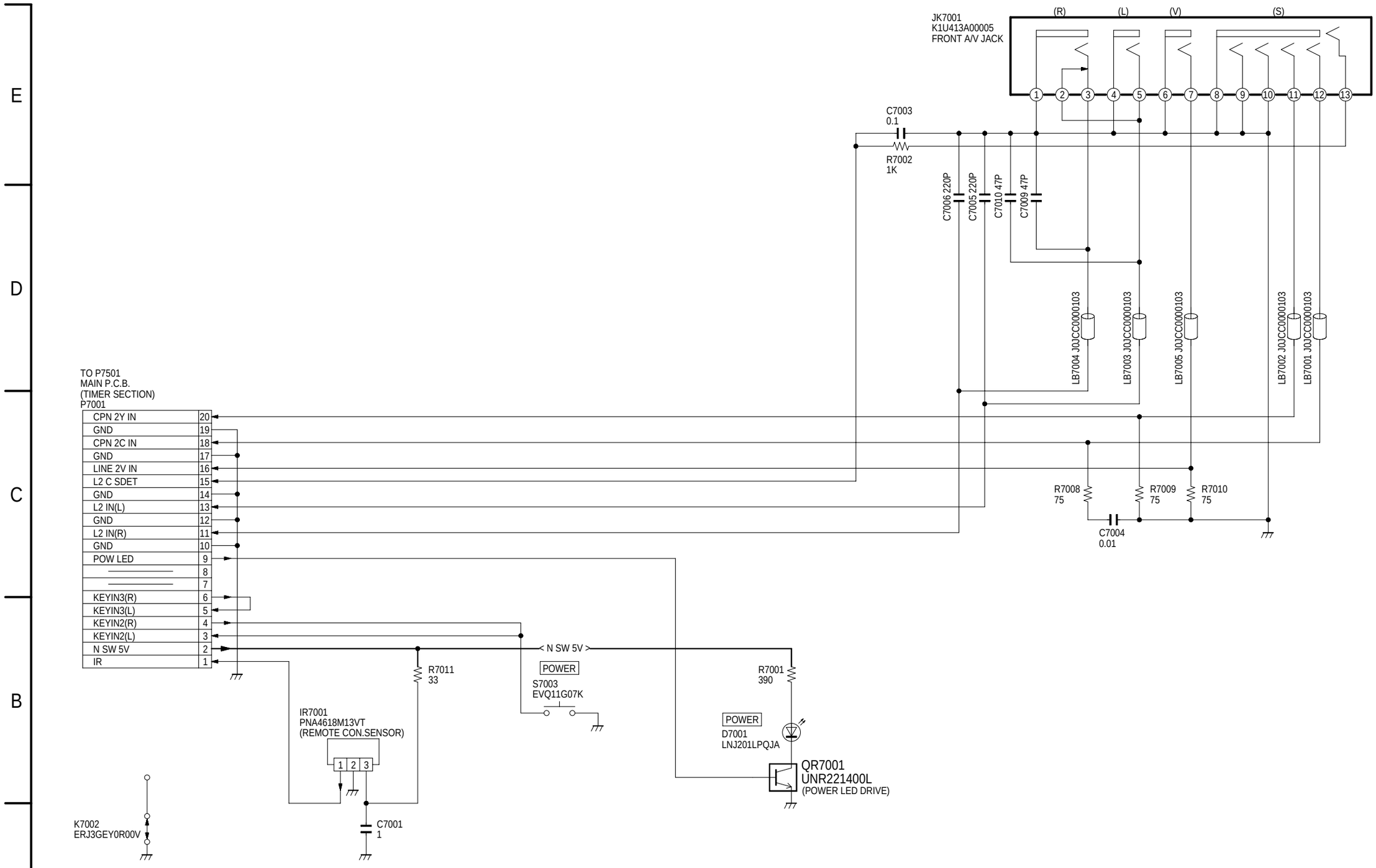
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
AV Encoder Section(Digital P.C.B.(3/8))
Schematic Diagram(EN)

FRONT (R) P.C.B.



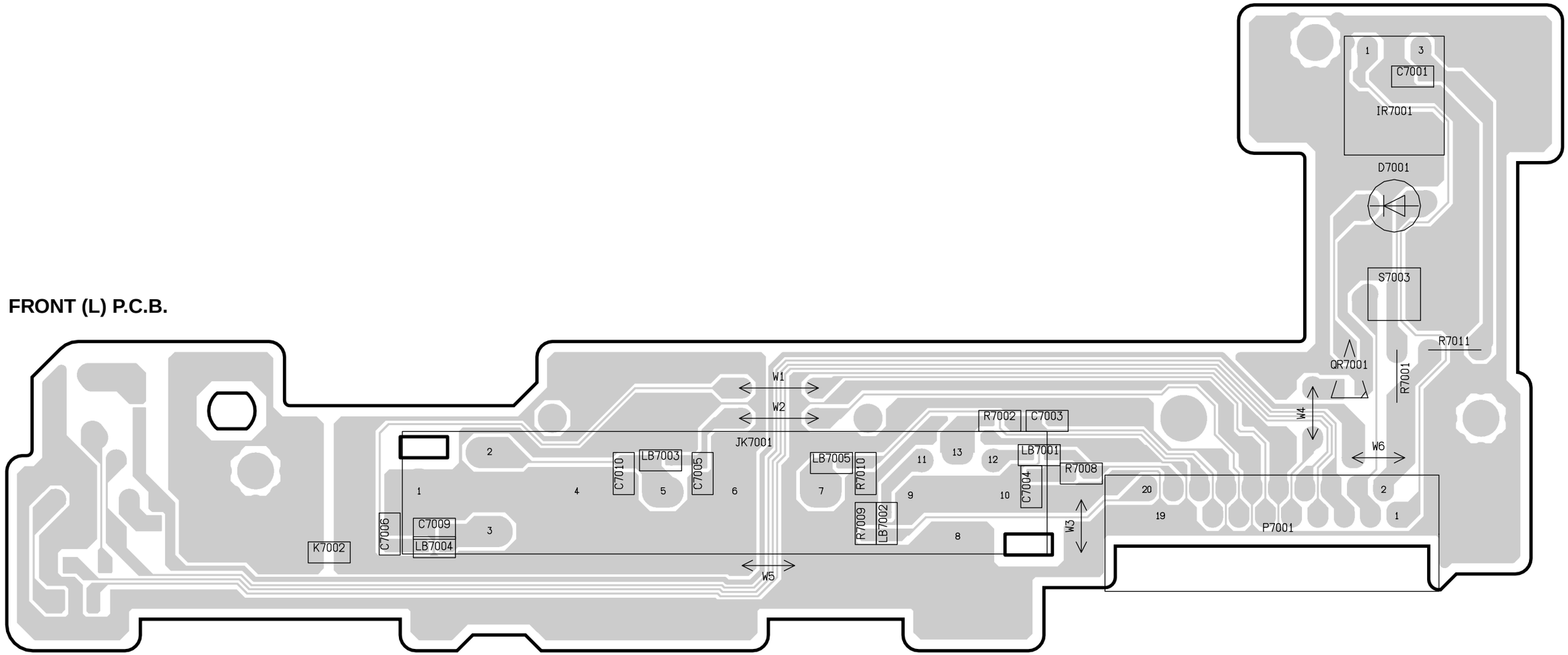
DMR-E60EB/EG
FRONT (R) P.C.B.
(REP3528AA)



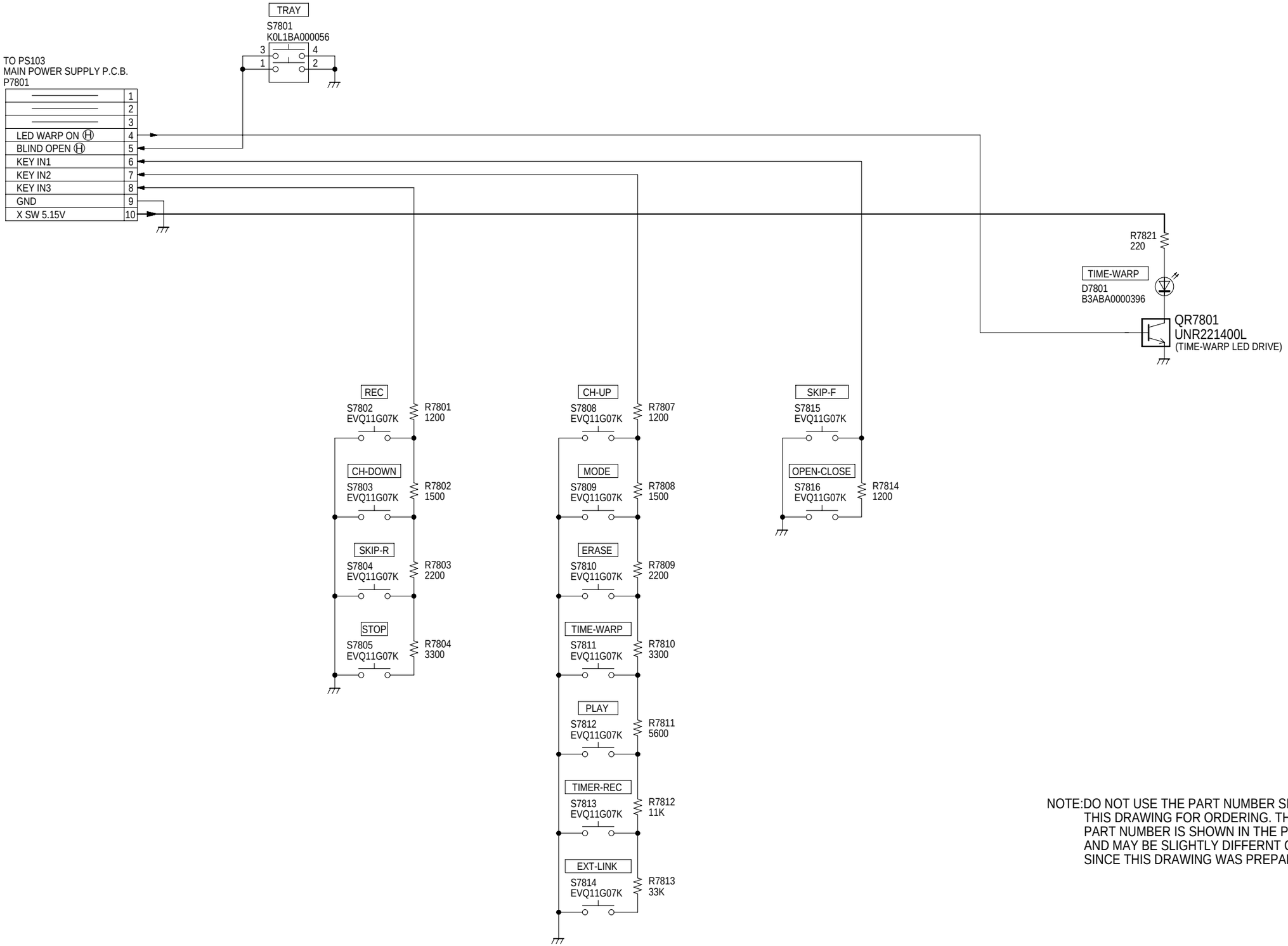
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Front (L) Schematic Diagram

FRONT (L) P.C.B.



DMR-E60EB/EG
FRONT (L) P.C.B.
(REP3528CB)



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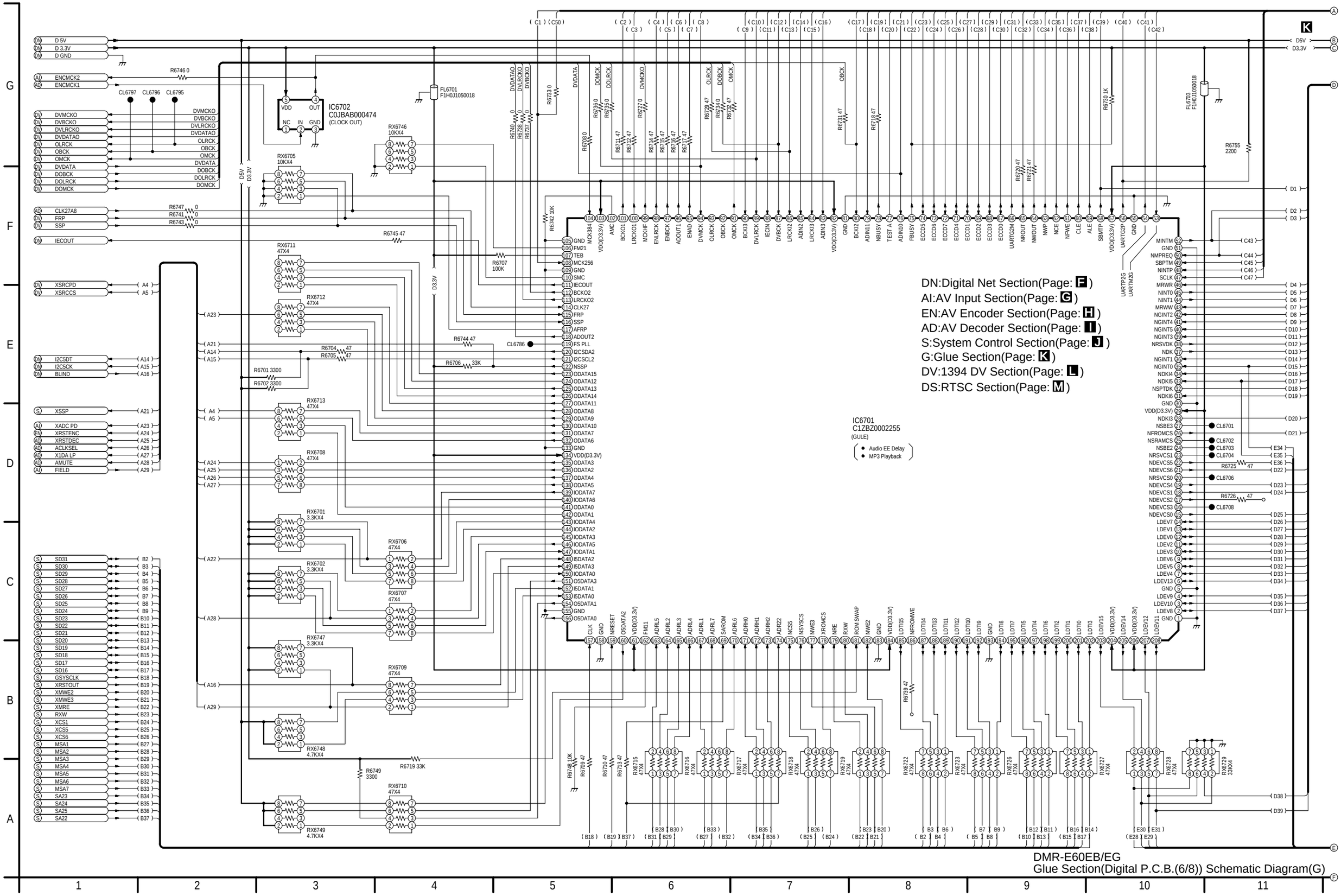
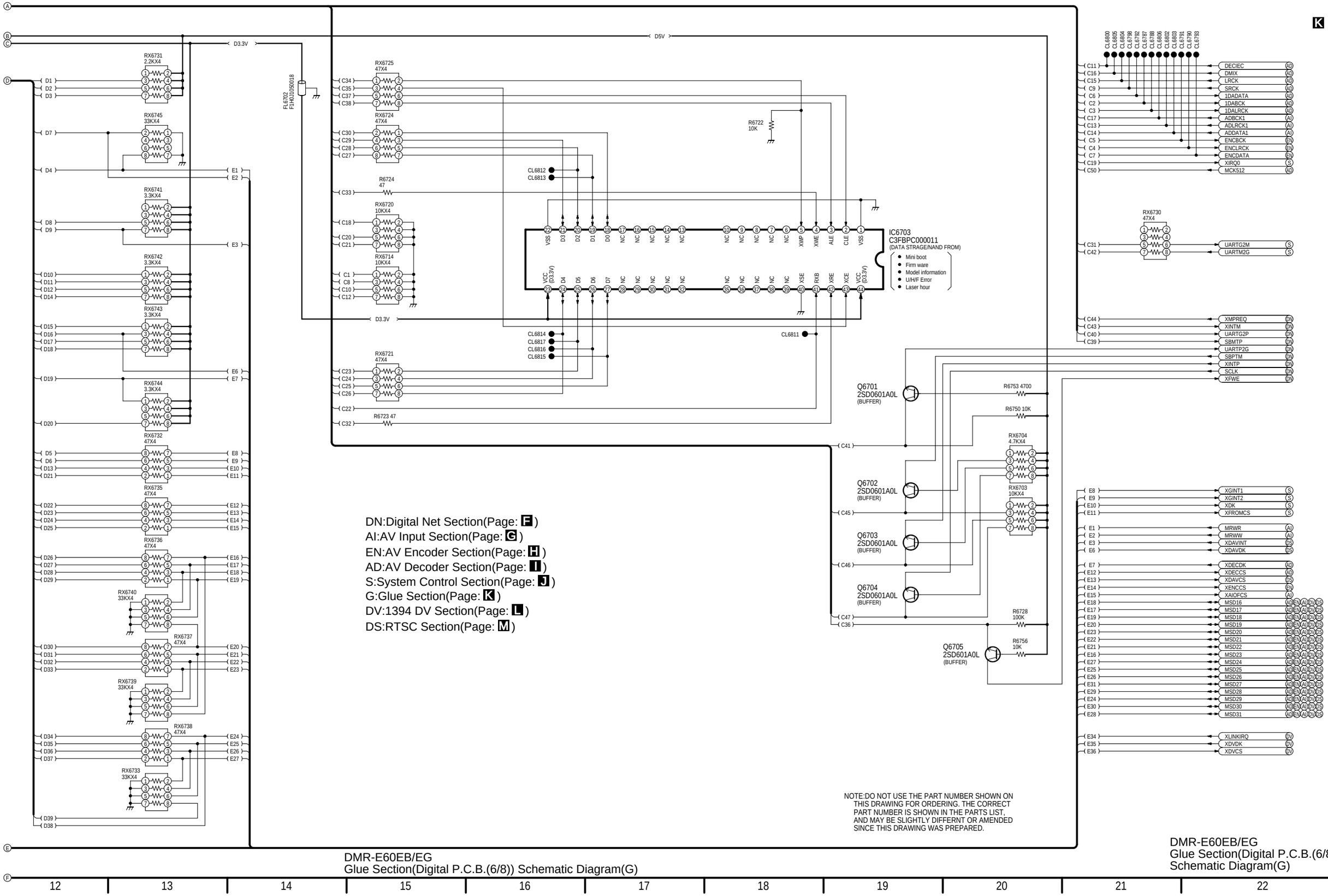
DMR-E60EB/EG
Front (R) Schematic Diagram

E D C B A

1 2 3 4 5 6 7


IC6702
C0JBAB000474
(CLOCK OUT)
IC6701
C1ZBZ0002255
(GULE)
Audio EE Delay
MP3 Playback
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
DMR-E60EB/EG
Glue Section(Digital P.C.B.(6/8)) Schematic Diagram(G)



DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60EB/EG
Glue Section(Digital P.C.B.(6/8)) Schematic Diagram(G)

DMR-E60EB/EG
Glue Section(Digital P.C.B.(6/8))
Schematic Diagram(G)

IC Pin Terminal Chart (TC 1 - TC 6)

TC	IC3203 / VAD CON		SIGNAL NAME	IC3402 / AV ENC	
	Port Name	Pin No		Pin No	Port Name
1	R656OUT0	141	R656ENC0	17	VIN0
	R656OUT1	140	R656ENC1	18	VIN1
	R656OUT2	139	R656ENC2	20	VIN2
	R656OUT3	138	R656ENC3	21	VIN3
	R656OUT4	135	R656ENC4	23	VIN4
	R656OUT5	134	R656ENC5	24	VIN5
	R656OUT6	133	R656ENC6	25	VIN6
	R656OUT7	132	R656ENC7	26	VIN7

TC	IC3402 / AV ENC		SIGNAL NAME	IC3503 / RTSC	
	Port Name	Pin No		Pin No	Port Name
2	CDO0	63	ED0	28	B2DAT0
	CDO1	64	ED1	29	B2DAT1
	CDO2	65	ED2	31	B2DAT2
	CDO3	67	ED3	32	B2DAT3
	CDO4	68	ED4	34	B2DAT4
	CDO5	69	ED5	35	B2DAT5
	CDO6	72	ED6	36	B2DAT6
	CDO7	73	ED7	38	B2DAT7

TC	IC3503 / RTSC		SIGNAL NAME	FP3501 (TO DVD RAM)	
	Port Name	Pin No		Pin No	Port Name
3	IHDD0	211	RAMD0	24	DD0
	IHDD1	215	RAMD1	26	DD1
	IHDD2	219	RAMD2	28	DD2
	IHDD3	221	RAMD3	30	DD3
	IHDD4	225	RAMD4	32	DD4
	IHDD5	230	RAMD5	34	DD5
	IHDD6	232	RAMD6	36	DD6
	IHDD7	235	RAMD7	38	DD7
	IHDD8	234	RAMD8	37	DD8
	IHDD9	231	RAMD9	35	DD9
	IHDD10	226	RAMD10	33	DD10
	IHDD11	224	RAMD11	31	DD11
	IHDD12	220	RAMD12	29	DD12
	IHDD13	216	RAMD13	27	DD13
	IHDD14	214	RAMD14	25	DD14
	IHDD15	210	RAMD15	23	DD15

TC	IC3203/VAD CON		SIGNAL NAME	IC3201/SDRAM	
	Port Name	Pin No		Pin No	Port Name
4	M0DT0	63	DT0	2	DO0
	M0DT1	62	DT1	3	DO1
	M0DT2	60	DT2	5	DO2
	M0DT3	59	DT3	6	DO3
	M0DT4	57	DT4	8	DO4
	M0DT5	56	DT5	9	DO5
	M0DT6	54	DT6	11	DO6
	M0DT7	53	DT7	12	DO7
	M0DT8	50	DT8	39	DO8
	M0DT9	49	DT9	40	DO9
	M0DT10	47	DT10	42	DO10
	M0DT11	46	DT11	43	DO11
	M0DT12	44	DT12	45	DO12
	M0DT13	43	DT13	46	DO13
	M0DT14	41	DT14	48	DO14
	M0DT15	40	DT15	49	DO15
	M0AD0	83	AD0	21	A0
	M0AD1	82	AD1	22	A1
	M0AD2	80	AD2	23	A2
	M0AD3	79	AD3	24	A3
	M0AD4	76	AD4	27	A4
	M0AD5	75	AD5	28	A5
	M0AD6	73	AD6	29	A6
	M0AD7	72	AD7	30	A7
	M0AD8	70	AD8	31	A8
	M0AD9	69	AD9	32	A9
	M0AP	67	AD10	20	A10
	M0BA	66	AD11	19	A11

TC	IC3402/AV ENC		SIGNAL NAME	IC3401/SDRAM(32bit/64M)	
	Port Name	Pin No		Pin No	Port Name
5	MDQ0	124	MDQA0	2	DQ0
	MDQ1	125	MDQA1	4	DQ1
	MDQ2	127	MDQA2	5	DQ2
	MDQ3	128	MDQA3	7	DQ3
	MDQ4	130	MDQA4	8	DQ4
	MDQ5	131	MDQA5	10	DQ5
	MDQ6	133	MDQA6	11	DQ6
	MDQ7	134	MDQA7	13	DQ7
	MDQ8	137	MDQA8	74	DQ8
	MDQ9	138	MDQA9	76	DQ9
	MDQ10	140	MDQA10	77	DQ10
	MDQ11	141	MDQA11	79	DQ11
	MDQ12	143	MDQA12	80	DQ12
	MDQ13	144	MDQA13	82	DQ13
	MDQ14	146	MDQA14	83	DQ14
	MDQ15	147	MDQA15	85	DQ15
	MDQ16	150	MDQA16	31	DQ16
	MDQ17	151	MDQA17	33	DQ17
	MDQ18	153	MDQA18	34	DQ18
	MDQ19	154	MDQA19	36	DQ19
	MDQ20	158	MDQA20	37	DQ20
	MDQ21	159	MDQA21	39	DQ21
	MDQ22	161	MDQA22	40	DQ22
	MDQ23	162	MDQA23	42	DQ23
	MDQ24	165	MDQA24	45	DQ24
	MDQ25	166	MDQA25	47	DQ25
	MDQ26	168	MDQA26	48	DQ26
	MDQ27	169	MDQA27	50	DQ27
	MDQ28	186	MDQA28	51	DQ28
	MDQ29	187	MDQA29	53	DQ29
	MDQ30	190	MDQA30	54	DQ30
	MDQ31	191	MDQA31	56	DQ31
	MA0	193	MAA0	25	A0
	MA1	194	MAA1	26	A1
	MA2	196	MAA2	27	A2
	MA3	197	MAA3	60	A3
	MA4	200	MAA4	61	A4
	MA5	201	MAA5	62	A5
	MA6	203	MAA6	63	A6
	MA7	204	MAA7	64	A7
	MA8	206	MAA8	65	A8
	MA9	207	MAA9	66	A9
	MA10	2	MAA10	24	A10

TC	IC3503 / RTSC		SIGNAL NAME	IC3501,IC3502/SDRAM	
	Port Name	Pin No		Pin No	Port Name
6	MDQ0	248	MADQB0	2	DQ0
	MDQ1	250	MADQB1	4	DQ1
	MDQ2	252	MADQB2	5	DQ2
	MDQ3	254	MADQB3	7	DQ3
	MDQ4	258	MADQB4	8	DQ4
	MDQ5	261	MADQB5	10	DQ5
	MDQ6	263	MADQB6	11	DQ6
	MDQ7	266	MADQB7	13	DQ7
	MDQ8	267	MADQB8	42	DQ8
	MDQ9	264	MADQB9	44	DQ9
	MDQ10	262	MADQB10	45	DQ10
	MDQ11	259	MADQB11	47	DQ11
	MDQ12	255	MADQB12	48	DQ12
	MDQ13	253	MADQB13	50	DQ13
	MDQ14	251	MADQB14	51	DQ14
	MDQ15	249	MADQB15	53	DQ15

IC Pin Terminal Chart (TC 7, TC 8, TC 9, TC 15, TC 16, TC 21, TC 22)

TC	IC3203/VAD CON		SIGNAL NAME	IC50003/AV DEC	
	Port Name	Pin No		Pin No	Port Name
7	R656OUT0	141	R656ENC0	138	VDIN0
	R656OUT1	140	R656ENC1	137	VDIN1
	R656OUT2	139	R656ENC2	136	VDIN2
	R656OUT3	138	R656ENC3	134	VDIN3
	R656OUT4	135	R656ENC4	133	VDIN4
	R656OUT5	134	R656ENC5	132	VDIN5
	R656OUT6	133	R656ENC6	130	VDIN6
	R656OUT7	132	R656ENC7	129	VDIN7

TC	IC50003/AV DEC		SIGNAL NAME	IC50002/SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQ0	17	DQ0	2	DQ0
	MDQ1	14	DQ1	4	DQ1
	MDQ2	11	DQ2	5	DQ2
	MDQ3	8	DQ3	7	DQ3
	MDQ4	6	DQ4	8	DQ4
	MDQ5	3	DQ5	10	DQ5
	MDQ6	207	DQ6	11	DQ6
	MDQ7	205	DQ7	13	DQ7
	MDQ8	206	DQ8	42	DQ8
	MDQ9	2	DQ9	44	DQ9
	MDQ10	4	DQ10	45	DQ10
	MDQ11	7	DQ11	47	DQ11
	MDQ12	9	DQ12	48	DQ12
	MDQ13	13	DQ13	50	DQ13
	MDQ14	16	DQ14	51	DQ14
	MDQ15	18	DQ15	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC50003/AV DEC		SIGNAL NAME	IC50004/SDRAM	
	Port Name	Pin No		Pin No	Port Name
9	MDQ16	171	DQ16	2	DQ0
	MDQ17	168	DQ17	4	DQ1
	MDQ18	166	DQ18	5	DQ2
	MDQ19	163	DQ19	7	DQ3
	MDQ20	160	DQ20	8	DQ4
	MDQ21	158	DQ21	10	DQ5
	MDQ22	154	DQ22	11	DQ6
	MDQ23	151	DQ23	13	DQ7
	MDQ24	150	DQ24	42	DQ8
	MDQ25	153	DQ25	44	DQ9
	MDQ26	155	DQ26	45	DQ10
	MDQ27	159	DQ27	47	DQ11
	MDQ28	162	DQ28	48	DQ12
	MDQ29	164	DQ29	50	DQ13
	MDQ30	167	DQ30	51	DQ14
	MDQ31	169	DQ31	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC6004 / MAIN CPU		SIGNAL NAME	IC6002 / W-MEMORY	
	Port Name	Pin No		Pin No	Port Name
15	MD0	35	MD0	2	DQ0
	MD1	36	MD1	4	DQ1
	MD2	37	MD2	5	DQ2
	MD3	38	MD3	7	DQ3
	MD4	39	MD4	8	DQ4
	MD5	40	MD5	10	DQ5
	MD6	41	MD6	11	DQ6
	MD7	42	MD7	13	DQ7
	MD8	46	MD8	42	DQ8
	MD9	47	MD9	44	DQ9
	MD10	48	MD10	45	DQ10
	MD11	49	MD11	47	DQ11
	MD12	50	MD12	48	DQ12
	MD13	51	MD13	50	DQ13
	MD14	52	MD14	51	DQ14
	MD15	53	MD15	53	DQ15
	MA0	5	MA0	23	A0
	MA1	6	MA1	24	A1
	MA2	7	MA2	25	A2
	MA3	8	MA3	26	A3
	MA4	9	MA4	29	A4
	MA5	10	MA5	30	A5
	MA6	11	MA6	31	A6
	MA7	12	MA7	32	A7
	MA8	13	MA8	33	A8
	MA9	14	MA9	34	A9
	MA10	15	MA10	22	A10
	MA11	16	MA11	35	A11
	MA12	17	MA12	36	NC
	MA13	18	MA13	21	A12
	MA14	19	MA14	20	A13

TC	IC3503 / RTSC		SIGNAL NAME	IC50003 / AV DEC	
	Port Name	Pin No		Pin No	Port Name
16	B3DATA0	51	STD0	88	STD0
	B3DATA1	49	STD1	87	STD1
	B3DATA2	47	STD2	86	STD2
	B3DATA3	46	STD3	85	STD3
	B3DATA4	45	STD4	84	STD4
	B3DATA5	44	STD5	83	STD5
	B3DATA6	43	STD6	82	STD6
	B3DATA7	42	STD7	81	STD7

TC	IC6701 / GLUE		SIGNAL NAME	IC6703 / DATA STRAGE	
	Port Name	Pin No		Pin No	Port Name
21	ECCD0	67	DE0	18	D0
	ECCD1	70	DE1	19	D1
	ECCD2	69	DE2	20	D2
	ECCD3	68	DE3	21	D3
	ECCD4	71	DE4	24	D4
	ECCD5	74	DE5	25	D5
	ECCD6	73	DE6	26	D6
	ECCD7	72	DE7	27	D7

TC	IC37002 / 8bit CONVERTER		SIGNAL NAME	IC37001 / DV CODEC	
	Port Name	Pin No		Pin No	Port Name
22	D0	6	R656DD0	49	D0
	D1	7	R656DD1	48	D1
	D2	8	R656DD2	45	D2
	D3	9	R656DD3	44	D3
	D4	10	R656DD4	42	D4
	D5	11	R656DD5	41	D5
	D6	12	R656DD6	39	D6
	D7	13	R656DD7	38	D7

SA0 - SA25 ADDRESS BUS LINE (TC20-1, TC12-3, TC17-1, TC18, TC19-1, TC25 , TC27)

TC	20-1		12-3		17-1		18		19-1		25		27	
SIGNAL NAME	IC6004/MAIN CPU		IC3503 / RTSC		IC6701/GLUE		IC6007 / BUFFER		IC6006 / LOADER		IC50003 / AVDEC		IC37001 / DV CODEC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	186	SA0	-	-	-	-	-	-	-	-	-	-	-	-
SA1	187	SA1	-	-	-	-	26	4A4	11	A0	-	-	-	-
SA2	188	SA2	-	-	-	-	27	4A3	10	A1	-	-	-	-
SA3	189	SA3	-	-	-	-	29	4A2	9	A2	-	-	-	-
SA4	190	SA4	-	-	-	-	30	4A1	8	A3	-	-	-	-
SA5	191	SA5	-	-	-	-	32	3A4	7	A4	-	-	-	-
SA6	192	SA6	-	-	-	-	33	3A3	6	A5	-	-	-	-
SA7	193	SA7	-	-	-	-	35	3A2	5	A6	-	-	-	-
SA8	194	SA8	70	HADR8	-	-	-	-	4	A7	41	HA8	109	AD7
SA9	195	SA9	71	HADR9	-	-	-	-	42	A8	42	HA9	107	AD8
SA10	196	SA10	72	HADR10	-	-	-	-	41	A9	43	HA10	106	AD9
SA11	197	SA11	73	HADR11	-	-	-	-	40	A10	45	HA11	105	AD10
SA12	198	SA12	76	HADR12	-	-	-	-	39	A11	46	HA12	104	AD11
SA13	199	SA13	77	HADR13	-	-	-	-	38	A12	47	HA13	103	AD12
SA14	200	SA14	78	HADR14	-	-	-	-	37	A13	49	HA14	-	-
SA15	201	SA15	79	HADR15	-	-	-	-	36	A14	50	HA15	-	-
SA16	205	SA16	82	HADR16	-	-	-	-	35	A15	51	HA16	-	-
SA17	206	SA17	83	HADR17	-	-	-	-	34	A16	54	HA17	-	-
SA18	207	SA18	84	HADR18	-	-	-	-	3	A17	-	-	-	-
SA19	208	SA19	85	HADR19	-	-	-	-	-	-	-	-	-	-
SA20	209	SA20	86	HADR20	-	-	-	-	-	-	-	-	-	-
SA21	210	SA21	87	HADR21	-	-	-	-	-	-	-	-	-	-
SA22	211	SA22	-	-	174	ADR22	-	-	-	-	-	-	-	-
SA23	212	SA23	-	-	171	ADRH0	-	-	-	-	-	-	-	-
SA24	213	SA24	-	-	172	ADRH1	-	-	-	-	-	-	-	-
SA25	214	SA25	-	-	173	ADRH2	-	-	-	-	-	-	-	-

SD16 - SD31 DATA BUS LINE (TC20-2, TC17-2, TC19-2)

TC	20-2		17-2		19-2	
SIGNAL NAME	IC6004 / MAIN CPU		IC6701 / GLUE		IC6006 / LOADER	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD16	135	SD16	201	LDTI 0	15	D0
SD17	136	SD17	200	LDTI 1	17	D1
SD18	137	SD18	199	LDTI 2	19	D2
SD19	138	SD19	202	LDTI 3	21	D3
SD20	139	SD20	197	LDTI 4	24	D4
SD21	140	SD21	196	LDTI 5	26	D5
SD22	141	SD22	198	LDTI 6	28	D6
SD23	142	SD23	195	LDTI 7	30	D7
SD24	144	SD24	194	LDTI 8	16	D8
SD25	145	SD25	192	LDTI 9	18	D9
SD26	146	SD26	191	LDTI 10	20	D10
SD27	147	SD27	189	LDTI 11	22	D11
SD28	148	SD28	190	LDTI 12	25	D12
SD29	149	SD29	188	LDTI 13	27	D13
SD30	150	SD30	187	LDTI 14	29	D14
SD31	151	SD31	185	LDTI 15	31	D15

MSD16 - MSD31 DATA BUS LINE (TC10-1, TC11-1, TC12-1, TC13-1, TC14-1, TC26-1)

TC	10-1		11-1		12-1		13-1		14-1		26-1	
SIGNAL NAME	IC3203/VAD CON		IC3402/ AV ENC		IC3503/RTSC		IC6701/GLUE		IC50003/AVDEC		IC37001/DV CODEC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSD16	129	MDA0	81	HD0	108	HDAT0	12	LDEV0	55	HD0	101	ADDT0
MSD17	128	MDA1	82	HD1	107	HDAT1	13	LDEV1	56	HD1	100	ADDT1
MSD18	127	MDA2	85	HD2	106	HDAT2	11	LDEV2	57	HD2	99	ADDT2
MSD19	126	MDA3	86	HD3	105	HDAT3	10	LDEV3	59	HD3	98	ADDT3
MSD20	124	MDA4	88	HD4	103	HDAT4	7	LDEV4	60	HD4	96	ADDT4
MSD21	123	MDA5	89	HD5	102	HDAT5	8	LDEV5	61	HD5	95	ADDT5
MSD22	122	MDA6	90	HD6	100	HDAT6	9	LDEV6	63	HD6	94	ADDT6
MSD23	121	MDA7	92	HD7	99	HDAT7	14	LDEV7	64	HD7	93	ADDT7
MSD24	118	MDA8	93	HD8	98	HDAT8	2	LDEV8	65	HD8	91	ADDT8
MSD25	117	MDA9	94	HD9	97	HDAT9	4	LDEV9	67	HD9	90	ADDT9
MSD26	116	MDA10	97	HD10	96	HDAT10	3	LDEV10	68	HD10	89	ADDT10
MSD27	115	MDA11	98	HD11	95	HDAT11	208	LDEV11	70	HD11	88	ADDT11
MSD28	113	MDA12	99	HD12	94	HDAT12	207	LDEV12	72	HD12	86	ADDT12
MSD29	112	MDA13	101	HD13	90	HDAT13	6	LDEV13	73	HD13	85	ADDT13
MSD30	111	MDA14	102	HD14	89	HDAT14	205	LDEV14	74	HD14	84	ADDT14
MSD31	110	MDA15	103	HD15	88	HDAT15	203	LDEV15	76	HD15	83	ADDT15

MSA1 - MSA7 ADDRESS BUS LINE (TC24, TC10-2, TC11-2, TC12-2, TC13-2, TC14-2, TC26-2)

TC	24		10-2		11-2		12-2		13-2		14-2		26-2	
SIGNAL NAME	IC6007/16bit BUFFER		IC3203/VAD CON		IC3402/AV ENC		IC3503/RTSC		IC6701/GLUE		IC50003/AVDEC		IC37001/DV CODEC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSA1	23	4Y4	107	MAD0	106	HA0	61	HADR1	167	ADRL1	32	HA1	117	AD0
MSA2	22	4Y3	106	MAD1	107	HA1	64	HADR2	164	ADRL2	33	HA2	116	AD1
MSA3	20	4Y2	105	MAD2	108	HA2	65	HADR3	165	ADRL3	35	HA3	115	AD2
MSA4	19	4Y1	104	MAD3	109	HA3	66	HADR4	166	ADRL4	36	HA4	114	AD3
MSA5	17	3Y4	103	MAD4	105	HA4	67	HADR5	163	ADRL5	37	HA5	112	AD4
MSA6	16	3Y3	102	MAD5	-	-	68	HADR6	170	ADRL6	38	HA6	111	AD5
MSA7	14	3Y2	101	MAD6	-	-	69	HADR7	168	ADRL7	40	HA7	110	AD6

IC Pin Terminal Chart (TC 28 - TC 31)

TC	IC50003 / AV DEC		SIGNAL NAME	IC37001 / DV DEC	
	Port Name	Pin No		Pin No	Port Name
28	VDOUT0	140	R656DEC0	157	R656IN0
	VDOUT1	141	R656DEC1	156	R656IN1
	VDOUT2	142	R656DEC2	155	R656IN2
	VDOUT3	143	R656DEC3	154	R656IN3
	VDOUT4	145	R656DEC4	152	R656IN4
	VDOUT5	146	R656DEC5	151	R656IN5
	VDOUT6	147	R656DEC6	150	R656IN6
	VDOUT7	149	R656DEC7	149	R656IN7

TC	IC50003 / AV DEC		SIGNAL NAME	IC50009 / BUFFER	
	Port Name	Pin No		Pin No	Port Name
29	VDOUT0	140	R656DEC0	2	I0
	VDOUT1	141	R656DEC1	3	I1
	VDOUT2	142	R656DEC2	4	I2
	VDOUT3	143	R656DEC3	5	I3
	VDOUT4	145	R656DEC4	6	I4
	VDOUT5	146	R656DEC5	7	I5
	VDOUT6	147	R656DEC6	8	I6
	VDOUT7	149	R656DEC7	9	I7

TC	IC37001 / DV CODEC		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
30	REC656OUT0	145	R656DD0	155	R656IN0
	REC656OUT1	144	R656DD1	154	R656IN1
	REC656OUT2	143	R656DD2	153	R656IN2
	REC656OUT3	142	R656DD3	152	R656IN3
	REC656OUT4	140	R656DD4	151	R656IN4
	REC656OUT5	139	R656DD5	150	R656IN5
	REC656OUT6	138	R656DD6	149	R656IN6
	REC656OUT7	137	R656DD7	148	R656IN7

TC	IC50009 / BUFFER		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
31	REC656OUT0	18	R656DD0	155	R656IN0
	REC656OUT1	17	R656DD1	154	R656IN1
	REC656OUT2	16	R656DD2	153	R656IN2
	REC656OUT3	15	R656DD3	152	R656IN3
	REC656OUT4	14	R656DD4	151	R656IN4
	REC656OUT5	13	R656DD5	150	R656IN5
	REC656OUT6	12	R656DD6	149	R656IN6
	REC656OUT7	11	R656DD7	148	R656IN7